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CITY OF CAMBRIDGE.

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THE

# MAYOR'S ADDRESS

AT THE

ORGANIZATION OF THE CITY GOVERNMENT,

JANUARY 2, 1893,

AND

# THE ANNUAL REPORTS

MADE TO

THE CITY COUNCIL

FOR THE YEAR 1892.

BOSTON:

CASHMAN, KEATING & CO., PRINTERS.

1893.

Published by order of the City Council.

# MAYOR'S ADDRESS.

*Gentlemen of the City Council:*

Custom demands, and with pleasure I make to you, some statement of our municipal affairs. The statement will be brief; for the operations, the needs and the wants of the several departments are set out at length in their reports, which you will carefully scan, and I see no occasion, at this time, to make extended comments upon them.

The principles which should be followed in the administration of the trust committed to our care have been so clearly stated by my predecessors that I need scarcely refer to them. To meet current expenses with current revenue; to incur no debt except for permanent improvement in which others, also, are to share; to distinguish between our needs and our wants; to plan for the future while not neglecting the present; not to mislead by a failure to provide for needs which should be met at once; to foresee our necessary expense for the year, to make provision accordingly by appropriation, and then to live within the appropriation; to discriminate wisely, and to expend economically, are principles from which the public will endure no departure.

The principles are established. It is their application which is expected of us.

Extraordinary provision for new public buildings and for the Harvard bridge has concerned, of late years, our predecessors. Provision for the Metropolitan sewer and for public parks will engage our attention.

In the past few years our ordinary annual expenses have been increased by the introduction of the police signal system, the extension of the electric lighting system, the cost of caring for the new public buildings, the increase in the police force and in the fire department, the establishment of a department of electric wires, the maintenance of more streets and sewers, and in other ways incident to the growth of the city. It is not apparent, however, that any substantial increase of this sort need be made during the current year.

Let us look at some of the figures: —

| | 1891. | 1892. | Increase. | Decrease. |
|---|---|---|---|---|
| Funded City Debt, | $2,294,000 00 | $2,439,000 00 | $145,000 00 | |
| Sinking Fund, | 651,826 93 | 772,280 01 | 120,453 08 | |
| Net Funded City Debt, | $1,642,173 07 | $1,666,719 99 | $24,546 92 | |
| Funded Water Debt, | $1,776,500 00 | $1,711,500 00 | | $65,000 00 |
| W. W. Sinking Fund, | 814,319 45 | 602,019 27 | | 212,300 18 |
| Net Water Debt, | $962,180 55 | $1,109,480 73 | 147,300 18 | |
| Valuation (Net), | $69,679,834 25 | $73,015,598 75 | $3,335,764 50 | |
| Borrowing capacity, | *$422,261 58 | †$672,510 82 | $250,249 24 | |
| Legal limit of taxation for municipal purposes, outside of the Sinking Fund requirements, Interest on the Debt and State and County Tax, | $798,928 63 | $834,830 79 | $35,902 16 | |

*Include Harvard Bridge Exemption, $400,000.

†Include Harvard Bridge Exemption, $400,000, and Park Exemption, $200,000.

The Attorney General has given his opinion that temporary loans in anticipation of taxes are not excluded from the debt limit. To avoid the inconvenience caused thereby, I recommend that the legislature be asked to exclude them.

## WATER SUPPLY.

The report of the Water Board shows a continuation of the work of improvement around Fresh Pond. The acquisition of land, in Belmont, for a high service reservoir is noted. Interesting suggestions relating to the future are made, and evidence is plenty that the wisdom in plan and the vigor in execution which has characterized the management of our water supply has in nothing abated.

## SCHOOLS.

The management of the schools belongs to a Board directly responsible to the people. You will be asked to make such appropriations for school purposes as may be determined upon; but beyond this you are without responsibility. No subject, however, can interest you more as citizens, and I am sure you will extend to the responsible directors of our school system your hearty coöperation.

## SCHOOL STATISTICS FOR 1892.

| | |
|---|---|
| Number of pupils on the first of December | 11,511 |
| Number of teachers on the first of December | 284 |
| Cost of the day schools, not including expenditures for new school houses | $266,651 02 |
| Increase over last year | 17,159 35 |
| Cost of the schools per pupil | 24 55 |
| Increase over last year | 84 |

## POLICE AND FIRE DEPARTMENTS.

To protect life and property under the law is the duty of our police and fire departments. Much of what the members of a small community do voluntarily, a large community finds it advantageous to pay individuals to do. And of course the community insists that it shall be done well. While the fact is not to be overlooked that the members of these departments are men and fellow-citizens, with rights and privileges to be regarded, their peculiar obligations must be kept in mind. Intelligence, activity and fidelity in conduct, gravity of demeanor, and neatness of person, together with prompt and cheerful obedience to orders, will not only obtain the commendation of the public, but will make the patrolman and the hoseman of to-day the captain and the engineer of ten years hence.

## STREETS.

By no expenditure to which the citizens of Cambridge are likely to assent will it ever be possible to put and keep our streets in a condition satisfactory to all who use them. By doing the usual paving, to be paid for out of the current revenue, by the suitable grading of some streets and the judicious patching of others, and by an extension of street watering so as to cover, as far as practicable, all periods of the year when dust would rise if the streets were not watered, conditions at least as satisfactory as those of the past may be had. Provision should be made for street cleaning throughout the year. So far as this rests with the executive, it will be attended to.

## SEWERS.

During the year, provision must be made for connecting our sewers with the Metropolitan system, the speedy completion of which, so far as it serves our city, cannot be too urgently pressed. In two cases, at least, — that of the Binney Street and the Bridge Street sewers, because of the distance of the Metropolitan sewer from their mouths, — it will be necessary to construct new conduits for sewerage, pitching in an opposite direction, and extending from the river line to the line of Portland Street.

## PARKS.

The people of our city are greatly indebted to the able Committee whose intelligent labors have resulted in placing before us much information and many excellent suggestions about a park system. Its report has, I believe, crystallized our notions very satisfactorily, and while its precise recommendations may not be eventually adopted, its general scope, it seems to me, must necessarily be followed. The report will engage our earnest consideration, for the problem presented must be studied and solved.

I recommend that the legislature be asked to give the city authority to borrow $300,000 for park purposes, in addition to the loan for which authority has already been given.

## HEALTH.

Cleanliness of quarters and grounds is the first thing attended to in a military encampment. It is usually one of the last to occupy the attention of towns and cities.

To keep the city clean morally, great efforts have been made. To keep it clean materially, the Board of Health is doing what it can with its limited resources. The relation between the two objects is such that progress in the latter will make the former easier of accomplishment. This year, I need not remind you, prudence may require extraordinary action by our Board of Health.

### MILK AND VINEGAR.

The work of the Inspector of Milk and Vinegar during the year has been faithfully done. If the purpose of recent legislation relating to this department is to be carried out, it is plain that a larger appropriation is needed.

### LIBRARY.

In their report, the Trustees of the Library call attention to the lack of reading room in the library building. This is strikingly apparent to any one familiar with the modern use of public libraries, and should be remedied, if the usefulness of the library is not to be impaired. I quote the following paragraph from the report:

"The Public Library, like the School Department and the Water Department, must never be regarded as a work of public charity, or as the provision made by any class of citizens for any other class. It is rather to be viewed as a part of that modern social tendency sometimes called collectivism, by which the people of a community, as a whole, provide conveniences and advantages for themselves. It is for the City Government to decide, in this case, how far this provision is to be carried, and it is for the trustees to

administer this trust, not merely in the letter, but in the spirit of its intention. And the great expansion of the work of the Cambridge Public Library since its removal to the new building has been an effort to carry out this purpose."

## OVERSEERS OF THE POOR — CEMETERIES.

The department of Overseers of the Poor and the Cemetery Department both appear to be well conducted. I have no suggestions to make at the present time respecting them.

## WIRES.

The department of Inspection and Supervision of Electric Wires, to establish which involved some expense, has improved our systems, and has insured a much more efficient service. The expenses in the future need not be so burdensome. Akin to this department since the extensive use of the electric light, and now under the charge of the same competent official, is the department of

## LAMPS,

| | |
|---|---|
| Of which the number, on November 30, 1892, was | 906 |
| Divided as follows: | |
| Arc | 437 |
| Incandescent | 114 |
| Gas | 299 |
| Oil | 56 |

The department is now provided with instruments which test the quantity of electric light furnished by the supply company. Some streets are still unprovided for, but in the interest of good order, as well as of public convenience, they should be lighted as fast as a wise economy will allow.

### BRIDGES.

During the past year the Harvard bridge has been placed under the charge of Mr. William J. Marvin, the value of whose services as Commissioner of the West Boston, Craigie's and Prison Point bridges, has been freely acknowledged. His report shows that some provision is needed for repairing Craigie's bridge. Our other bridges are now, it is believed, in fairly good repair.

### WEIGHTS AND MEASURES.

In his report the Sealer of Weights and Measures states that "although the number of scales, weights and measures inspected and sealed exceeds that of last year by about twenty-five hundred, the department has been carried on at an expense of two hundred dollars less than last year."

### PUBLIC BUILDINGS.

Our public buildings have become a burden of large proportions. Every year brings us new needs, and for these provision must be made; but especially in this department should needs be distinguished from wants. The Superintendent's comprehensive report will give you some knowledge of the size to which this department has grown. I recommend that provision be made for a new school house in Ward Three; that alterations be made in the building on Fourth Street so that the police department may have needed accommodations; and that land be acquired for a new engine house in Ward One.

That private building has been by no means inactive is shown by the fact that 592 permits have been issued

during the past year. While a large area in the north-eastern section of the city will be devoted to manufactures, it is believed that ours will be largely a city of homes. If this be so, should it not be the end of all our endeavors to make it a home to be proud of? My earnest wish is that we and our successors may be given the wisdom to accomplish this.

*Gentlemen of the City Council:*

I have no need to exhort you to do your duty; nor shall I rehearse to you my own intentions. There can be nothing added to the solemn obligation which we have made ours, and which we have called Almighty God to witness. May He watch over and protect our city.

# ANNUAL REPORTS.

# ANNUAL REPORT OF THE CITY AUDITOR.

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Office of City Auditor,
City Hall, Dec. 1, 1892.

*To the Honorable City Council:*

Gentlemen: In conformity with the requirements of the City Ordinances, the undersigned herewith presents the forty-sixth Annual Report of the Receipts and Expenditures of the City of Cambridge for the financial year commencing December 1, 1891, and ending November 30, 1892.

Respectfully submitted,

HARRY T. UPHAM,

*City Auditor.*

## RECEIPTS.

| | | | |
|---|---|---|---|
| Receipts from all sources during the year were as follows : | | | |
| From City Departments (as shown in detailed statement) . . . . | | $145,174 88 | |
| From Water Works (as shown in detailed statement) . . . . . | | 272,312 54 | |
| From Betterments (extension and widening of Front Street) . . . | | 5,797 79 | |
| From Cemetery Fund (amount received for "perpetual care of lots"). | | 1,885 98 | |
| From sale of Bonds : | | | |
| For New Engine House | $20,000 00 | | |
| Edgestones and Sidewalks . . . | 50,000 00 | | |
| Wellington School House . . . | 20,000 00 | | |
| Street Widenings and Extensions . . | 55,000 00 | | |
| Water Works . . | 270,000 00 | | |
| | | 415,000 00 | |
| From Temporary Loans in anticipation of Taxes . . . | | 516,000 00 | |
| Taxes : | | | |
| City . . . | $1,202,065 98 | | |
| Corporation . . | 64,726 00 | | |
| National Bank . . | 18,049 21 | | |
| Liens . . . | 1,529 40 | | |
| Sale Surplus . . | 230 44 | | |
| | | 1,286,601 03 | |
| From the Trustees of the Water Works Sinking Fund (for payment of Water Debt) . . . . | | 335,000 00 | |
| Total receipts for the year ending Nov. 30, 1892, . . . . . | | | $2,977,772 22 |
| The balance in the Treasury Nov. 30, 1891, was . . . . . | | | 105,936 47 |
| *Amount carried forward* . . . | | | $3,083,708 69 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . | | | $3,083,708 69 |

**EXPENDITURES.**

| | | | |
|---|---|---|---|
| The payments have been as follows: | | | |
| For City Departments (as shown in detailed statement) . . . | | $1,451,171 84 | |
| Water Works (as shown in detailed statement) . . . . . | | 497,772 78 | |
| Abatements, Taxes . . . . | | 23,647 67 | |
| Cemetery Fund (invested) . . | | 1,885 98 | |
| City Debt: | | | |
| Temporary Loans . | $516,000 00 | | |
| Water Loan . . | 335,000 00 | | |
| | | 851,000 00 | |
| Taxes: | | | |
| County . . . | $60,845 07 | | |
| Corporation . . | 15 07 | | |
| Metropolitan Sewer . | 6,809 57 | | |
| National Bank . . | 7,459 69 | | |
| State . . . . | 54,495 00 | | |
| Sale surplus (refunded) | 152 50 | | |
| | | 129,776 90 | |
| Total Payments for year ending Nov. 30, 1892 . . . . . | | | $2,955,255 17 |
| Balance in the Treasury . . . | | | $128,453 52 |
| The balance in the Treasury is subject to draft for amounts contracted for but not approved to the amount of . . . . . | | | $104,277 62 |
| Leaving net balance in the Treasury of | | | $24,175 90 |
| For some of the extraordinary expenses, bonds have been issued as follows: | | | |
| New Engine House in Ward III | | $20,000 00 | |
| Wellington School House . . | | 20,000 00 | |
| Street Extensions, Widenings and Paving . . . . . | | 55,000 00 | |
| Street Crossings, Edgestones and Sidewalks . . . . | | 50,000 00 | |
| Construction of Water Works . | | 70,000 00 | |
| Land takings around Fresh Pond | | 125,000 00 | |
| Stony Brook Damages . . | | 75,000 00 | |
| | | | $415,000 00 |

## CITY FUNDED DEBT.

There has been an addition to the City Funded Debt during the year, of $145,000.00, caused by the issue of coupon bonds as follows:

| | |
|---|---|
| Building Loan, coupon bonds dated May 2, 1892, payable in ten years, at an annual interest of four per cent. (New Engine House in Ward III.) | $20,000 00 |
| Paving Loan, coupon bonds dated Nov. 1, 1892, payable in ten years, at an annual interest of four per cent. (Edgestones and Sidewalks) . . | 50,000 00 |
| School House Loan, coupon bonds dated Nov. 1, 1892, payable in ten years, at an annual interest of four per cent. (Wellington School House) . | 20,000 00 |
| Street Loan, coupon bonds dated May 2, 1892, payable in ten years, at an annual interest of four per cent. (Construction of Sundry Streets) . | 55,000 00 |
| | $145,000 00 |

| | 1891. | 1892. | Increase. | Decrease. |
|---|---|---|---|---|
| Funded City Debt | $2,294,000 00 | $2,439,000 00 | $145,000 00 | |
| Sinking Funds | 651,826 93 | 772,280 01 | 120,453 08 | |
| Net Funded City Debt | $1,642,173 07 | $1,666,719 99 | $24,546 92 | |

The following is a statement of the total funded debt of the city, with the rates of interest thereon:

### Building Loan.

| | | | | |
|---|---|---|---|---|
| May 2, 1892 | 4 per cent.—10 yrs. | May 2, 1902 | | $20,000 00 |

### Bridge Loan.

| Date of Issue. | Rate of Interest. | When Due. | Amount. | Total. |
|---|---|---|---|---|
| Oct. 1, 1887 | 4 per cent.—30 yrs. | Oct. 1, 1917 | $10,000 00 | |
| July 1, 1888 | 4 " —30 " | July 1, 1918 | 100,000 00 | |
| Sept. 1, 1888 | 4 " —30 " | Sept. 1, 1918 | 100,000 00 | |
| Mar. 1, 1889 | 4 " —30 " | Mar. 1, 1919 | 115,000 00 | |
| Nov. 1, 1890 | 4 " —30 " | Nov. 1, 1920 | 5,000 00 | |
| July 1, 1891 | 4 " —30 " | July 1, 1921 | 60,000 00 | |
| July 1, 1891 | 4 " —10 " | July 1, 1901 | 15,000 00 | $405,000 00 |

### Cambridge Cemetery Loan.

| | | | | |
|---|---|---|---|---|
| Aug. 1, 1885 | 4 per cent.—20 yrs. | Aug. 1, 1905 | | $65,000 00 |

### City Loan.

| | | | | |
|---|---|---|---|---|
| Mar. 5, 1863 | 5 per cent.—30 yrs. | Jan. 1, 1893 | | $150,000 00 |

### Land Loan.

| | | | | |
|---|---|---|---|---|
| July 1, 1873 | 6 per cent.—20 yrs. | July 1, 1893 | $10,000 00 | |
| Aug. 1, 1888 | 4 " —10 " | Aug. 1, 1898 | 83,000 00 | $93,000 00 |

### Municipal Loan.

| | | | | |
|---|---|---|---|---|
| April 1, 1885 | 4 per cent.—10 yrs. | April 1, 1895 | | $200,000 00 |

### Paving Loan.

| | | | | |
|---|---|---|---|---|
| July 1, 1873 | 6 per cent.—20 yrs. | July 1, 1893 | $100,000 00 | |
| July 1, 1874 | 6 " —20 " | July 1, 1894 | 130,000 00 | |
| July 1, 1875 | 6 " —20 " | July 1, 1895 | 25,000 00 | |
| Nov. 1, 1892 | 4 " —10 " | Nov. 1, 1902 | 50,000 00 | $305,000 00 |

## School-House Loan.

| Date of Issue. | Rate of Interest. | When Due. | Amount. | Total. |
|---|---|---|---|---|
| May 1, 1890 | 4 per cent.—10 yrs. | May 1, 1900 | $100,000 00 | |
| Jan. 1, 1891 | 4 " —10 " | Jan. 1, 1901 | 100,000 00 | |
| July 1, 1891 | 4 " —10 " | July 1, 1901 | 60,000 00 | |
| Nov. 1, 1892 | 4 " —10 " | Nov. 1, 1902 | 20,000 00 | $280,000 00 |

## Sewer Loan.

| | | | | |
|---|---|---|---|---|
| Oct. 1, 1875 | 6 per cent.—20 yrs. | Oct. 1, 1895 | $20,000 00 | |
| July 1, 1876 | 6 " —20 " | July 1, 1896 | 29,000 00 | |
| Nov. 1, 1886 | 3½ " —10 " | Nov. 1, 1896 | 25,000 00 | |
| July 1, 1873 | 6 " —30 " | July 1, 1903 | 136,000 00 | |
| July 1, 1874 | 6 " —30 " | July 1, 1904 | 295,000 00 | |
| July 1, 1875 | 6 " —30 " | July 1, 1905 | 144,000 00 | |
| Nov. 1, 1887 | 4 " —20 " | Nov. 1, 1907 | 30,000 00 | |
| Nov. 1, 1889 | 4 " —20 " | Nov. 1, 1909 | 22,000 00 | |
| May 1, 1890 | 4 " —20 " | May 1, 1910 | 15,000 00 | |
| July 1, 1891 | 4 " —20 " | July 1, 1911 | 15,000 00 | $731,000 00 |

## Street Loan.

| | | | | |
|---|---|---|---|---|
| July 1, 1873 | 6 per cent.—20 yrs. | July 1, 1893 | $13,000 00 | |
| May 2, 1892 | 4 " —10 " | May 2, 1902 | 55,000 00 | $68,000 00 |

## Street Widening Loan.

| | | | | |
|---|---|---|---|---|
| Nov. 1, 1889 | 4 per cent.—10 yrs. | Nov. , 1899 | $8,000 00 | |
| July 1, 1873 | 6 " —30 " | July 1, 1903 | 10,000 00 | |
| July 1, 1874 | 6 " —30 " | July 1, 1904 | 90,000 00 | |
| July 1, 1875 | 6 " —30 " | July 1, 1905 | 14,000 00 | $122,000 00 |

TOTAL FUNDED CITY LOAN . . . . $2,439,000 00

## THE FUNDED WATER DEBT.

| | | |
|---|---|---|
| Of the Water Debt there have matured during the year bonds amounting to . . . . . | | $335,000 00 |
| There has been an addition to the Water Debt of the city during the year, of $270,000.00, caused by the issue of coupon bonds as follows: | | |
| Fresh Pond Land Loan, coupon bonds dated Jan. 1, 1892, payable in twenty years at an annual interest of four per cent. (Purchase of land around Fresh Pond) . . | $125,000 00 | |
| General Construction Loan, coupon bonds dated Nov. 1, 1892, payable in twenty years at an annual interest of four per cent. . . . . | 70,000 00 | |
| Stony Brook Loan, coupon bonds dated May 2, 1892, payable in twenty years at an annual interest of four per cent. (Settlement of Damage Cases.) . . . . . | 75,000 00 | |
| | | 270,000 00 |
| Decrease of Water Debt . . . | | $65,000 00 |

| | 1891. | 1892 | Increase | Decrease |
|---|---|---|---|---|
| Funded Water Debt | $1,776,500 00 | $1,711,500 00 | | $65,000 00 |
| Sinking Fund of Water Works | 814,319 45 | 602,019 27 | | 212,300 18 |
| Net Funded Water Debt | $962,180 55 | $1,109,480 73 | $147,300 18 | |

Following is a statement of the total funded water debt of the city, with rates of interest thereon:

| Date of Issue. | Rate of Interest. | When Due. | Amount. | Total. |
|---|---|---|---|---|
| April 1, 1874 | 6 per cent.—20 yrs. | April 1, 1894 | $150,000 00 | |
| Nov. 1, 1884 | 4 " —10 " | Nov. 1, 1894 | 36,000 00 | |
| April 1, 1875 | 6 " —20 " | April 1, 1895 | 160,000 00 | |
| July 1, 1876 | 6 " —20 " | July 1, 1896 | 103,000 00 | |
| July 1, 1877 | 6 " —20 " | July 1, 1897 | 16,000 00 | |
| July 1, 1878 | 5 " —20 " | July 1, 1898 | 12,500 00 | |
| Nov. 1, 1886 | 3½ " —20 " | Nov. 1, 1906 | 43,000 00 | |
| Oct. 1, 1887 | 4 " —20 " | Oct. 1, 1907 | 90,000 00 | |
| Nov. 1, 1887 | 4 " —20 " | Nov. 1, 1907 | 22,000 00 | |
| July 1, 1888 | 4 " —20 " | July 1, 1908 | 46,000 00 | |
| Aug. 1, 1888 | 4 " —20 " | Aug. 1, 1908 | 25,000 00 | |
| July 1, 1889 | 4 " —20 " | July 1, 1909 | 20,000 00 | |
| May 1, 1885 | 4 " —25 " | May 1, 1910 | 288,000 00 | |
| July 1, 1890 | 4 " —20 " | July 1, 1910 | 75,000 00 | |
| Sept. 1, 1890 | 4 " —20 " | Sept. 1, 1910 | 125,000 00 | |
| Jan. 1, 1891 | 4 " —20 " | Jan. 1, 1911 | 20,000 00 | |
| April 1, 1886 | 3½ " —25 " | April 1, 1911 | 100,000 00 | |
| July 1, 1886 | 3½ " —25 " | July 1, 1911 | 75,000 00 | |
| Oct. 1, 1891 | 4 " —20 " | Oct. 1, 1911 | 35,000 00 | |
| Jan. 1, 1892 | 4 " —20 " | Jan. 1, 1912 | 150,000 00 | |
| May 2, 1892 | 4 " —20 " | May 2, 1912 | 75,000 00 | |
| Nov. 1, 1892 | 4 " —20 " | Nov. 1, 1912 | 45,000 00 | $1,711,500 00 |

**Recapitulation.**

| | | |
|---|---|---|
| Amount of funded City Loan upon which interest is at 6 per cent. | $1,016,000 00 | |
| Amount of funded City Loan upon which interest is at 5 per cent. | 150,000 00 | |
| Amount of funded City Loan upon which interest is at 4 per cent. | 1,248,000 00 | |
| Amount of funded City Loan upon which interest is at 3½ per cent. | 25,000 00 | |
| | | $2,439,000 00 |
| Amount of Water Loan upon which interest is at 6 per cent. | $429,000 00 | |
| Amount of Water Loan upon which interest is at 5 per cent. | 12,500 00 | |
| Amount of Water Loan upon which interest is at 4 per cent. | 1,052,000 00 | |
| Amount of Water Loan upon which interest is at 3½ per cent. | 218,000 00 | |
| | | $1,711,500 00 |

The following is a statement of the temporary loans negotiated during the year:

| Date. | Negotiated with. | Rate per Cent. | Paid. | Amount. |
|---|---|---|---|---|
| Jan. 12, 1892 | Commissioners of Sinking Funds of Cambridge | 4 | Oct. 10, 1892 | $135,000 00 |
| Mch. 14, 1892 | Commissioners of Sinking Funds of Cambridge | 3½ | Oct. 10, 1892 | 68,000 00 |
| April 1, 1892 | Blake Bros. of Boston | 3½ | Oct. 10, 1892 | 50,000 00 |
| July 11, 1892 | New England Trust Co. of Boston | 3 | Oct. 11, 1892 | 50,000 00 |
| July 11, 1892 | Commissioners of Sinking Funds of Cambridge | 3 | Oct. 11, 1892 | 13,000 00 |
| July 19, 1892 | Brewster, Cobb & Estabrook of Boston | 3¼ | Oct. 12, 1892 | 50,000 00 |
| July 19, 1892 | Brewster, Cobb & Estabrook of Boston | 3⅝ | Oct. 13, 1892 | 100,000 00 |
| Sept. 6, 1892 | New England Trust Co. of Boston. | 4½ | Oct. 14, 1892 | 50,000 00 |
| | | | | $516,000 00 |

Temporary loans for the past ten years, and interest paid upon the same:

| Year. | Temporary Loan. | Interest paid upon the Loan. |
|---|---|---|
| 1883 | $600,000 | $14,880 25 |
| 1884 | 540,000 | 15,795 37 |
| 1885 | 300,000 | 13,790 52 |
| 1886 | 450,000 | 5,653 83 |
| 1887 | 555,000 | 9,222 24 |
| 1888 | 400,000 | 9,497 36 |
| 1889 | 490,000 | 5,919 54 |
| 1890 | 425,000 | 7,570 57 |
| 1891 | 465,000 | 10,796 25 |
| 1892 | 516,000 | 8,015 51 |

### The Trust Funds

Assumed by the city are held by trustees, and interest is paid upon them at the rate of six per cent. annually, as follows:

| Name of Fund. | Amount. | Interest. | |
|---|---|---|---|
| Daniel White Charity Fund ..... | $5,000 | at 6 per cent. | $300 |
| Dowse Institute Fund..... | 10,000 | at 6 per cent. | 600 |
| Sanders Temperance Fund ..... | 10,000 | at 6 per cent. | 600 |
| | $25,000 | | $1,500 |

### Cemetery Fund.

| | | |
|---|---|---|
| Amount of Fund Nov. 30, 1891 . . | | $23,201 24 |
| RECEIVED. | | |
| For perpetual care of lots in Cambridge Cemetery . . . . . | $1,885 98 | |
| Interest accumulations . . . . | 860 74 | |
| | | 2,746 72 |
| | | $25,947 96 |
| This fund is held in trust and is invested as follows: | | |
| City of Cambridge Bonds . . . | $16,000 00 | |
| Cambridge Savings Banks . . . | 9,947 96 | |
| | | $25,947 96 |

### Commissioners of Sinking Funds.

| | | |
|---|---|---|
| Amount of Funds, Nov. 30, 1891 . . | | $651,826 93 |
| RECEIVED. | | |
| From City Treasurer, being amount appropriated by the City Council to be derived from taxation . . . . | $91,405 00 | |
| Interest accumulations . . . . | 29,048 08 | |
| | | 120,453 08 |
| Amount of Funds Nov. 30, 1892 . . | | $772,280 01 |

### Trustees of Sinking Fund of Water Works.

| | | |
|---|---|---|
| Amount of Fund Nov. 30, 1891 . . | | $814,319 45 |
| RECEIVED. | | |
| From City Treasurer for amount due and appropriated by the City Council from the revenue of the Water Works . | $62,177 50 | |
| Surplus revenue of Water Works . . | 28,021 44 | |
| Interest accumulations . . . . | 32,500 88 | |
| | | 122,699 82 |
| | | $937,019 27 |
| EXPENDED. | | |
| For Water Bonds, matured July 1, 1892 | | 335,000 00 |
| Amount of Fund Nov. 30, 1892 . . | | $602,019 27 |

### Abatements, Taxes.

No appropriation is made for Abatements, as the Assessors allow in the Overlay an amount sufficient to cover the same.

| | |
|---|---|
| The Overlay for 1892 was . . . . . | $41,333 40 |
| The amount of tax abatements . . . . | 21,647 67 |
| Balance available for city purposes . | $19,685 73 |

The abatements paid by the City Treasurer were as follows:

| | Real. | Personal. | Polls. | Total. |
|---|---|---|---|---|
| Tax of 1889 | | $48 00 | $212 00 | $260 00 |
| " 1890 | $85 80 | 39 60 | 2 00 | 127 40 |
| " 1891 | 575 94 | 980 29 | 67 50 | 1,623 73 |
| " 1892 | 7,241 88 | 14,199 66 | 195 00 | 21,636 54 |
| | $7,903 62 | $15,767 55 | $476 50 | $23,647 67 |

## Taxes.

The amount of taxes assessed by the Board of Assessors on the real and personal estates and polls of Cambridge, for the year 1892, was as follows:

| | |
|---|---|
| Valuation of real estate | $56,668,100 |
| Valuation of personal estate | 17,687,595 |
| | $74,355,695 |
| Assessed at $16.00 per $1,000 gives | $1,189,691 12 |
| 21,941 polls at $2.00 | 43,882 00 |
| 289 polls of women at 50 cents each | 144 50 |
| Bank stock (non-resident separately assessed) | 6,798 48 |
| | $1,240,516 10 |

This tax is divided as follows:

| | |
|---|---|
| For City purposes* | $1,067,466 48 |
| County assessments | 60,845 07 |
| Overlay | 41,333 40 |
| State assessments | 54,495 00 |
| State charge for non-resident bank stock | 6,798 48 |
| Additional assessments | 2,768 10 |
| Metropolitan Sewer Tax | 6,809 57 |
| | $1,240,516 10 |

Increase in number of polls since last year:

| | |
|---|---|
| 1282 polls at $2.00 | $2,564 00 |
| Increase in real estate valuation | 2,527,000 00 |
| Increase in personal valuation | 1,200,525 00 |
| Gain in valuation since last year | $3,730,089 00 |

| | |
|---|---|
| Number of houses in 1892 | 11,359 |
| Number of houses in 1891 | 10,932 |
| Number of houses built during the past year | 427 |

| | |
|---|---|
| Number of horses assessed | 5,124 |
| Number of cows assessed | 530 |
| Number of swine assessed | 68 |

* To meet the city expenses, the income from various departments is added to this sum raised by taxation.

Following are the usual comparative tables representing the figures included in the assessors' warrant to the City Treasurer as of May 1, 1892, the items being a transcript from the books of the assessors:

**Polls and Valuation of Polls and Estates, May 1, 1890:**

| Wards. | Polls. | Valuation of Polls. | Personal. | Real Estate. | Total, Real and Personal | Dwellings. | Total Tax. |
|---|---|---|---|---|---|---|---|
| One ..... | 2,994 | $5,988 00 | $6,208,885 | $13,459,300 | $19,668,185 | 2,057 | $312,030 36 |
| Two .. ... | 5,480½ | 10,961 00 | 3,936,580 | 12,812,900 | 16,749,480 | 2,823 | 267,119 24 |
| Three ..... | 3,450¼ | 6,900 50 | 1,602,660 | 7,958,800 | 9,561,460 | 1,543 | 153,588 86 |
| Four ..... | 5,041¾ | 10,083 50 | 2,340,200 | 10,917,000 | 13,257,200 | 2,799 | 216,895 82 |
| Five ..... | 2,143½ | 4,287 00 | 1,206,300 | 7,029,300 | 8,235,600 | 1,393 | 132,762 36 |
| Total.... | 19,110 | $38,220 00 | $15,294,625 | $52,177,300 | $67,471,925 | 10,615 | $1,082,396 64 |

**Polls and Valuation of Polls and Estates, May 1, 1891:**

| Wards. | Polls. | Valuation of Polls | Personal. | Real Estate. | Total, Real and Personal | Dwellings. | Total Tax. |
|---|---|---|---|---|---|---|---|
| One ..... | 3,298¼ | $6,596 50 | $6,272,760 | $14,029,600 | $20,302,360 | 2,146 | $321,283 08 |
| Two ..... | 5,970½ | 11,941 00 | 4,349,810 | 13,180,500 | 17,530,310 | 2,897 | 283,660 80½ |
| Three .... | 3,683¾ | 7,367 50 | 1,748,300 | 8,183,900 | 9,932,250 | 1,578 | 161,322 60 |
| Four ..... | 5,260½ | 10,521 00 | 2,808,400 | 11,268,900 | 14,077,300 | 2,864 | 228,719 15 |
| Five ..... | 2,435¼ | 4,870 50 | 1,266,000 | 7,473,500 | ,739,500 | 1,447 | 140,322 75 |
| Total... | 20,648¼ | $41,296 50 | $16,445,270 | $54,136,400 | $70,581,670 | 10,932 | $1,135,318,38½ |

**Polls and Valuation of Polls and Estates, May 1, 1892:**

| Wards. | Polls. | Valuation of Polls. | Personal. | Real Estate. | Total, Real and Personal | Dwellings. | Total Tax. |
|---|---|---|---|---|---|---|---|
| One ..... | 3,450¼ | $6,900 50 | $6,385,265 | $14,711,700 | $21,096,965 | 2,231 | $344,451 94 |
| Two ..... | 6,323½ | 12,647 00 | 4,648,730 | 13,574,600 | 18,223,330 | 2,988 | 304,220 28 |
| Three .... | 3,799¾ | 7,599 50 | 2,108,800 | 8,531,900 | 10,640,700 | 1,594 | 177,850 70 |
| Four ..... | 5,456½ | 10,913 00 | 3,007,400 | 11,679,100 | 14,686,500 | 2,952 | 245,897 00 |
| Five ..... | 2,524 | 5,048 00 | 1,470,000 | 8,122,600 | 9,592,600 | 1,594 | 158,529 60 |
| Total... | 21,554 | $43,108 00 | $17,620,195 | $56,619,900 | $74,240,095 | 11,359 | $1,230,949 52 |

The valuation of estates in this city, for the years hereinbefore mentioned, are the same as originally made by the Board of Assessors, during those years, and the same figures were reported by that board to the Tax Commissioners for each of the years respectively. These valuations were subject to changes in each year, after such report was made, as shown by the following:

Net valuations of estates in the City of Cambridge for the past three years, after adding the amounts of all supplementary warrants and deducting therefrom all abatements:

| Year. | Total Valuation. | Abatements. | Net Valuation. |
|---|---|---|---|
| 1890 | $67,658,584 | $1,646,318 | $66,012,266 |
| 1891 | 70,676,684 | 996,849 | 69,679,835 |
| 1892 | 74,355,695 | 1,340,096 | 73,015,599 |
| | $212,690,963 | $3,983,263 | $208,707,700 |

| | | |
|---|---|---|
| Borrowing capacity . . . . . | 3) | $208,707,700 |
| Average net valuation for 1890, 1891, and 1892 . | | $69,569,233 |

This last sum represents the amount upon which the limit of the rate of taxation, and also of municipal indebtedness is fixed under the provisions of Chapter 312 of the Acts of the year 1885.

| | | |
|---|---|---|
| 2½ per cent. on same . . . . . | | $1,739,230 82 |
| Net Funded City Debt . . . . . | | 1,666,720 00 |
| Leaving a margin of . . . . . | | $72,510 82 |
| To which may be added the exemptions allowed by the Legislature on account of the Harvard Bridge and Avenue . . . . . | $400,000 00 | |
| Public Parks . . . . . | 200,000 00 | 600,000 00 |
| Borrowing capacity for 1893 . . | | $672,510 82 |

## Tax Levy.

| | |
|---|---|
| Average net valuation for 1890, 1891 and 1892 | $69,569,233 12 |
| | 139,138,466 |
| | 69,569,233 |
| Assessed at $12 per $1,000 gives . . . . | $834,830,796 |

Which is the legal limit of taxation for municipal purposes for 1892, outside of the Sinking Fund requirements, Interest on the Debt and State and County Tax.

Statement of the valuations of the personal property and real estate of the city of Cambridge, with the number of polls, dwellings and rate of taxation for the past ten years:

| Year. | Polls. | Personal. | Real Estate. | Total. | Dwellings. | Rate per $1,000. |
|---|---|---|---|---|---|---|
| 1883 | 14,870 | $11,975,640 | $39,821,700 | $51,797,340 | 8,572 | $16 40 |
| 1884 | 15,399¼ | 12,259,491 | 41,289,200 | 53,548,691 | 8,781 | 16 80 |
| 1885 | 16,036 | 12,758,255 | 42,588,300 | 55,346,555 | 9,106 | 15 50 |
| 1886 | 16,534½ | 14,490,470 | 44,955,200 | 59,445,570 | 9,398 | 15 00 |
| 1887 | 17,139¼ | 13,358,910 | 46,344,700 | 59,703,610 | 9,761 | 16 00 |
| 1888 | 18,086¾ | 14,296,740 | 48,420,600 | 62,717,340 | 9,927 | 15 00 |
| 1889 | 18,307½ | 14,960,100 | 50,324,175 | 65,284,275 | 10,222 | 16 00 |
| 1890 | 19,221¾ | 15,339,925 | 52,235,000 | 67,574,925 | 10,615 | 15 60 |
| 1891 | 20,731¼ | 16,508,770 | 54,167,914 | 70,676,684 | 10,932 | 15 50 |
| 1892 | 22,013¼ | 17,687,595 | 56,668,100 | 74,355,695 | 11,359 | 16 00 |

Abatements and discounts upon taxes for the past ten years, and amount of tax uncollected December 1, 1892:

| Year. | Total Tax. | Total Abatement. | Total Discounts. | Amount of tax uncollected Dec. 1, 1892. |
|---|---|---|---|---|
| 1883 | $885,938 96 | $14,784 62 | $31,188 00 | |
| 1884 | 937,938 64 | 11,210 3 | 32,926 83 | |
| 1885 | 895,012 06 | 14,174 11 | 32,781 78 | |
| 1886 | 930,228 50 | 17,497 00 | 32,532 57 | |
| 1887 | 995,964 90 | 15,443 74 | 26,054 53 | |
| 1888 | 982,829 50 | 21,667 20 | 25,366 53 | |
| 1889 | 1,088,374 60 | 20,982 71 | 28,081 09 | $13,238 40 |
| 1890 | 1,099,741 38 | 20,966 82 | 28,012 44 | 11,192 26 |
| 1891 | 1,143,712 67 | 21,343 12 | | 15,191 75 |
| 1892 | 1,240,186 50 | 21,636 54 | | 140,122 10 |

# BALANCE SHEET

OF THE

# CITY OF CAMBRIDGE, DECEMBER 1, 1892,

SHOWING THE

## Assets and Liabilities.

| | Assets. | Liabilities. |
|---|---|---|
| Cemetery Fund | $25,947 96 | |
| City Debt (Contingent) | | $200,000 00 |
| City Lands (Salable) | 12,069 59 | |
| City of Cambridge (City Property) | 2,638,158 25 | |
| City Treasury (Cash) | 128,453 52 | |
| Daniel White Charity (Trust Fund) | | 5,000 00 |
| Dowse Institute Fund (Trust Fund) | | 10,000 00 |
| Funded City Debt | | 2,439,000 00 |
| Funded Water Debt | | 1,711,500 00 |
| Sanders Temperance Fund (Trust Fund) | | 10,000 00 |
| Sinking Funds | 772,280 01 | |
| Sinking Fund of Water Works | 602,019 27 | |
| Taxes due the City | 179,744 51 | |
| Tax Liens | 17,470 37 | |
| Tax Sale "Surplus" | | 643 48 |
| | $4,376,143 48 | $4,376,143 48 |

Statement of the estimated receipts for the fiscal year ending Nov. 30, 1892, submitted to the City Council in February, 1892, and the actual receipts.

| Title of Accounts. | Estimated. | Actual. | Increase. | Decrease. |
|---|---|---|---|---|
| Bridges, W. B., C., and P. P. | $400 00 | $470 44 | $70 44 | |
| Cambridge Cemetery | 17,000 00 | 19,517 33 | 2,517 33 | |
| Cambridge Public Library | 4,500 00 | 4,149 88 | | $350 12 |
| City Clerk's Department | 2,200 00 | 2,708 79 | 508 79 | |
| City Treasurer's Department | 1,500 00 | 1,457 58 | | 42 42 |
| Fire Department | | 16 60 | 16 60 | |
| Incidental Expenses | | 6,042 60 | 6,042 60 | |
| Inspection of Milk and Vinegar | | 148 50 | 148 50 | |
| Inspection of Wires | | 199 18 | 199 18 | |
| Interest | 3,000 00 | 6,342 35 | 3,342 35 | |
| Law Department | 1,500 00 | 1,502 50 | 2 50 | |
| Lighting Streets | | 6 50 | 6 50 | |
| Overseers of the Poor: | | | | |
| Almshouse | 2,000 00 | 2,319 32 | 319 32 | |
| Farm and Ledge | 11,000 00 | 10,592 16 | | 407 84 |
| House Offal | 7,500 00 | 7,535 57 | 35 57 | |
| Outside Aid | 3,000 00 | 3,743 97 | 743 97 | |
| Police Department | 7,000 00 | 5,336 00 | | 1,664 00 |
| Public Property<br>City B'ld'gs, Care & Repairs | 2,900 00 | 2,915 74 | 15 74 | |
| New Engine House | | 720 00 | 720 00 | |
| School Houses | | 14 74 | 14 74 | |
| School Department: | | | | |
| Salaries | 1,400 00 | 1,738 07 | 338 07 | |
| Text-Books and Stationery | 300 00 | 300 00 | | |
| Sealer of Weights and Measures | 450 00 | 697 59 | 247 59 | |
| Sewers: | | | | |
| Construction | 10,000 00 | 12,716 34 | 2,716 34 | |
| Maintenance | 1,500 00 | 1,458 62 | | 41 38 |
| State Aid | 13,000 00 | 13,732 50 | 732 50 | |
| Stationery and Printing | 500 00 | 575 63 | 75 63 | |
| Street Department: | | | | |
| Bridges, Maintenance | | 114 62 | 114 62 | |
| Maintenance | 2,500 00 | 2,500 00 | | |
| Extension of First Street | 3,000 00 | 3,215 58 | 215 58 | |
| Paving | 30,000 00 | 18,376 78 | | 11,623 22 |
| Shade Trees, etc. | | 95 35 | 95 35 | |
| Watering | 14,000 00 | 13,914 05 | | 88 95 |
| Water Works: | | | | |
| Construction | | 9,760 00 | 9,760 00 | |
| Con., Fresh Pond Land Acct. | | 5,712 50 | 5,712 50 | |
| Con., Stony Brook Acct. | | 4,983 35 | 4,983 35 | |
| Interest | | 925 01 | 925 01 | |
| Maintenance | | 413 50 | 413 50 | |
| Rates, Fines, etc. | 205,622 50 | 243,474 81 | 37,852 31 | |
| Supplies | 7,100 00 | 7,043 37 | | 56 63 |
| Corporation Tax from Commonwealth for 1891 | 50,000 00 | 64,710 93 | 14,710 93 | |
| National Bank Tax from Commonwealth for 1891 | 11,000 00 | 10,589 52 | | 410 48 |
| Uncollected Taxes for 1891 and previous years | 100,000 00 | 102,001 58 | 2,001 58 | |
| | $513,872 50 | $594,789 45 | $95,598 99 | $14,682 04 |
| Increase | 80,916 95 | | | 80,916 95 |
| | $594,789 45 | $594,789 45 | $95,598 99 | $95,598 99 |

## Expenditures.

Statement of the expenditures of the fiscal year 1891–92, showing the increase or decrease from the amount appropriated by the City Council, March 2, 1892.

| TITLES OF ACCOUNTS. | ESTIMATED EXPENSES. | ACTUAL EXPENSES. | INCREASE. | DECREASE. |
|---|---|---|---|---|
| Assessor's Department | $10,300 00 | $10,665 86 | $365 86 | |
| Auditor's Department | 3,200 00 | 3,167 32 | | $32 68 |
| Bridges: | | | | |
| Harvard | 7,158 84 | 8,276 73 | 1,117 89 | |
| West Boston, Craigie and Prison Point | 8,700 00 | 8,174 66 | | 525 34 |
| Cambridge Cemetery | 17,000 00 | 16,791 09 | | 208 91 |
| Cambridge Public Library | 14,000 00 | 13,638 57 | | 361 43 |
| City Clerk's Department | 5,900 00 | 5,996 68 | 96 68 | |
| City Messenger's Department | 2,600 00 | 2,518 16 | | 81 84 |
| City Treasurer's Department | 12,500 00 | 11,680 62 | | 819 38 |
| Civil Service Department | 225 00 | 225 00 | | |
| Clerk of Committees' Department | 3,500 00 | 3,451 52 | | 48 48 |
| Election Expenses: | | | | |
| City Clerk | 4,800 00 | 4,811 21 | 11 21 | |
| Registrars of Voters | 3,100 00 | 4,220 82 | 1,120 82 | |
| Superintendent of Public Buildings | 600 00 | 1,525 46 | 925 46 | |
| Engineering Department | 9,500 00 | 9,902 11 | 402 11 | |
| Executive Department | 4,500 00 | 4,387 95 | | 112 05 |
| Fire Department | 61,000 00 | 61,016 48 | 16 48 | |
| Health Department | 4,500 00 | 4,887 62 | 387 62 | |
| Incidental Expenses | 25,000 00 | 7,212 36 | | 17,787 64 |
| Inspection of Milk and Vinegar | 1,000 00 | 999 90 | | 10 |
| Inspection of Wires | 12,000 00 | 12,548 58 | 548 58 | |
| Interest | 135,000 00 | 134,036 63 | | 963 37 |
| Law Department | 3,000 00 | 3,044 37 | 44 37 | |
| Lighting Streets | 65,000 00 | 63,862 68 | | 1,137 32 |
| *Amounts carried forward* | $414,083 84 | $397,042 38 | $5,037 08 | $22,078 54 |

**Expenditures** — *Continued.*

| TITLES OF ACCOUNTS. | ESTIMATED EXPENSES. | ACTUAL EXPENSES. | INCREASE. | DECREASE. |
|---|---|---|---|---|
| *Amounts brought forward* | $414,083 84 | $397,042 38 | $5,037 08 | $22,078 54 |
| Overseers of the Poor: | | | | |
| Almshouse | 22,000 00 | 21,925 43 | | 74 57 |
| Farm and Ledge | 8,000 00 | 7,730 90 | | 269 10 |
| House Offal | 19,500 00 | 22,376 43 | 2,876 43 | |
| Outside Aid | 35,000 00 | 34,838 13 | | 161 87 |
| Assistant City Physician | 1,500 00 | 1,500 00 | | |
| Police Department | 104,500 00 | 104,547 24 | 47 24 | |
| Public Property: | | | | |
| Care and Repair: | | | | |
| City Buildings | 21,000 00 | 21,121 23 | 121 23 | |
| School Houses | 44,000 00 | 48,129 39 | 4,129 39 | |
| Construction and Alteration: | | | | |
| Harvard School House, Fire Escapes | 1,500 00 | | | 1,500 00 |
| Morse School House, Grading | 500 00 | | | 500 00 |
| New Engine House, Ward 3 | 20,000 00 | 13,366 44 | | 6,633 56 |
| New High School House | 63,043 66 | 65,358 11 | 2,314 45 | |
| Old High School House | 15,000 00 | 16,496 23 | 1,496 23 | |
| Old High School House, Furnishings and Fittings | | 1,899 12 | 1,899 12 | |
| Wellington School House | | 8,550 00 | 8,550 00 | |
| Incidentals | 2,700 00 | 3,404 40 | 704 40 | |
| School Department: | | | | |
| Incidentals | 750 00 | 895 07 | 145 07 | |
| Salaries | 207,000 00 | 211,354 97 | 4,354 97 | |
| Text-Books, etc. | 13,000 00 | 12,420 34 | | 579 66 |
| Sealer of Weights and Measures | 1,300 00 | 1,684 10 | 384 10 | |
| Sewer Department: | | | | |
| Construction | 20,000 00 | 18,659 93 | | 1,340 07 |
| Maintenance | 30,000 00 | 23,664 56 | | 6,335 44 |
| Sinking Funds | 91,770 00 | 91,770 00 | | |
| State Aid | 24,000 00 | 25,262 30 | 1,262 30 | |

| | | | | |
|---|---|---|---|---|
| Stationery and Printing | $2,500 0 | 2,677 87 | $177 87 | |
| Street Department: | | | | |
| Bridges, Construction | 9,500 00 | 9,700 48 | 200 48 | |
| Bridges, Maintenance | 3,500 00 | 3,418 09 | | $81 91 |
| Belmont District, Construction and Maintenance | 10,000 00 | 9,885 01 | | 114 99 |
| Front Street, Filling and Grading | 9,140 65 | 2,604 87 | | 6,535 78 |
| Extensions and Widenings: | | | | |
| First Street | 19,500 00 | 19,153 19 | | 346 81 |
| Huron Street | 16,000 00 | 4,464 68 | | 11,535 32 |
| Inman Street | 1,142 00 | 1,000 00 | | 142 00 |
| North Avenue | 4,931 56 | 1,101 00 | | 3,830 56 |
| Maintenance, including the Collection of Ashes | 115,000 00 | 120,584 30 | 5,584 30 | |
| Paving: | | | | |
| Cambridge Street | 12,000 00 | 10,520 11 | | 1,479 89 |
| Central Square | 6,000 00 | 4,584 52 | | 1,415 48 |
| Edgestones and Sidewalks | 30,000 00 | 79,675 09 | 49,675 09 | |
| Shade Trees and Public Grounds | 6,000 00 | 6,873 45 | 873 45 | |
| Watering | 21,000 00 | 20,932 48 | | 67 52 |
| Water Works: | | | | |
| Construction | 70,000 00 | 81,395 47 | 11,395 47 | |
| Construction (Fresh Pond Land Account) | 125,000 00 | 107,702 31 | | 17,297 69 |
| Construction (Stony Brook Water Supply) | 75,000 00 | 71,727 32 | | 3,272 68 |
| Interest | 93,225 00 | 88,165 00 | | 5,060 00 |
| Maintenance | 45,000 00 | 46,733 13 | 1,733 13 | |
| Rates, Fines, etc. | | | | |
| Rates, Fines, etc. (Abatements) | 3,000 00 | 3,003 35 | 3 35 | |
| Rates, Fines, etc. (Refunds) | 2,000 00 | 1,485 42 | | 514 58 |
| Sinking Funds | 62,397 50 | 90,218 94 | 27,821 44 | |
| Supplies | 7,000 00 | 7,300 86 | 300 86 | |
| Supplies (Abatements) | 100 00 | 40 98 | | 59 02 |
| Allowance for Uncollected Taxes of 1892 | 120,000 00 | 140,122 10 | 20,122 10 | |
| | $2,029,084 21 | $2,089,066 72 | $151,209 55 | $91,227 04 |
| *Increase* | 59,982 51 | | | 59,982 51 |
| | $2,089,066 72 | $2,089,066 72 | $151,209 55 | $151,209 55 |

## Transfers.

The following transfers were made from the appropriations mentioned, to make up deficiencies occurring in the appropriations to which transfers were made, viz: —

| From the Appropriation for | Amounts. | To the Appropriation for | Amounts. |
|---|---|---|---|
| Incidental Expenses.... | $30,624 43 | Assessors' Department . | $365 86 |
| | | Bridge, Harvard..... | 1300 00 |
| | | Election Expenses..... | 2057 49 |
| | | Engineering..... | 402 11 |
| | | Health Department.... | 500 00 |
| | | Law Department ..... | 41 87 |
| | | Overseers of the Poor.. | 2840 86 |
| | | Police Department..... | 4000 00 |
| | | Public Property ..... | 11,519 54 |
| | | School Dept. Salaries .. | 4016 90 |
| | | Sealer of Weights and Measures ..... | 350 00 |
| | | State Aid..... | 529 80 |
| | | Stationery and Printing | 300 00 |
| | | Street Department..... | 2400 00 |
| Interest ..... | 2500 00 | Incidental Expenses ... | 2500 00 |
| Police Department..... | 575 00 | Inspection of Wires.... | 575 00 |
| School Dept.; T. B. & S. | 150 00 | School Dept. Incidental | 150 00 |
| Sewers, Maintenance.... | 4500 00 | Incidental Expenses ... | 4500 00 |
| | $38,349 43 | | $38,349 43 |

# APPROPRIATIONS AND EXPENDITURES.

---

The Amount of the Several Appropriations Made by the City Council During the Year — The Transfers from One Appropriation to Another — The Expenditures in Detail Under Each Appropriation, and the Unexpended Balances Nov. 30, 1892.

## Assessors' Department.

| | | |
|---|---|---|
| Appropriation . . . . . | | $10,300 00 |
| Transferred from Incidental Expenses . . . | | 365 86 |
| | | $10,665 86 |

EXPENDED.

| | | | |
|---|---|---|---|
| For Salaries of Assessors: | | | |
| Joshua G. Gooch . | $1,583 32 | | |
| Andrew J. Green . | 1,583 32 | | |
| Joseph Whittemore . | 1,583 34 | | |
| Assistant Assessors: | | | |
| John M. Davis . . | 348 00 | | |
| Warren Ivers . . | 292 00 | | |
| Daniel J. Hayes . . | 288 00 | | |
| D. B. Shaughnessy . | 160 00 | | |
| R. W. Sutton . . | 344 00 | | |
| Clerks: Lizzie E. Estes . | 650 00 | | |
| Ida G. Wellington . | 650 00 | | |
| Temporary Clerks . | 1,366 25 | | |
| | | $8,848 23 | |
| Abstracts: Lillie A. Balch | $174 90 | | |
| Sundry persons . . | 32 00 | | |
| | | 206 90 | |
| Advertising, James Cox . | | 22 80 | |
| Carriage hire: | | | |
| J. E. Fabyan . . | $9 00 | | |
| M. J. Fairbanks . . | 24 00 | | |
| | | 33 00 | |
| Car Tickets, West End Street Railway Co. . | | 20 00 | |
| Stationery, printing, postage and sundry supplies: | | | |
| Cotton & Gould . . | $111 00 | | |
| James H. Cox . . | 30 75 | | |
| John Ford & Son . | 28 50 | | |
| Harvard Printing Co. (Precinct Books) . | 1,185 00 | | |
| E. W. S. Jones . . | 83 75 | | |
| G. W. Ring . . | 12 00 | | |
| Stationery Department | 66 68 | | |
| Sundry Persons . . | 17 25 | | |
| | | 1,534 93 | |
| Total . . . . | | | $10,665 86 |

## Auditor's Department.

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $3,200 00 |
| EXPENDED. | | | |
| For Salaries of | | | |
| City Auditor, Harry T. Upham . . . | $2,100 00 | | |
| Clerk, Esther L. Cogan | 670 50 | | |
| Temporary Clerks . | 64 75 | | |
| | | $2,835 25 | |
| Stationery, printing, postage and sundry supplies: | | | |
| Cotton & Gould . . | $41 32 | | |
| James H. Cox . . | 61 55 | | |
| G. W. Ring . . | 22 00 | | |
| Harvard Printing Co. . | 33 45 | | |
| E. W. S. Jones . . | 11 25 | | |
| L. W. Poole . . | 23 00 | | |
| Stationery Department | 37 85 | | |
| Sundry Persons . . | 10 65 | | |
| John Wilson & Son . | 91 00 | | |
| | | 332 07 | |
| Total . . . . . | | | 3,167 32 |
| Balance unexpended . . . | | | $32 68 |

## Bridge, Harvard.

| | |
|---|---|
| Appropriation . . . . . | $7,158 84 |
| Transferred from Incidental Expenses . . . | 1,300 00 |
| | $8,458 84 |

(The expenses of the Harvard Bridge are divided equally between the cities of Boston and Cambridge, and the following amounts represent one-half of the cost of construction and maintenance.)

| | |
|---|---|
| *Amount carried forward* . . . . . | $8,458 84 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . . . . | | | $8,458 84 |

EXPENDED.

| | | | |
|---|---|---|---|
| For Services of | | | |
| Engineer, Wm. Jackson . . . . | $125 00 | | |
| Ass't Engineer, John E. Cheney . . . | 75 00 | | |
| Secretary, Nath. H. Taylor . . . | 100 00 | | |
| Drawtenders . . . | 898 28 | | |
| Motormen . . . | 261 09 | | |
| Watchmen . . . | 789 00 | | |
| | | $2,248 37 | |
| Binding Reports, John P. Dale & Co. | | 97 05 | |
| Cable, etc., Boston Electric Light Co. | | 29 63 | |
| Electric Motor, Thomson-Houston Motor Co. . . . . | | 900 29 | |
| Electric Current, Cambridge Electric Light Co. . . . . | | 137 08 | |
| Electric Lights: | | | |
| Cambridge Electric Light Co. . . | $540 00 | | |
| Boston Electric Light Co. . . . . | 599 96 | | |
| | | 1,139 96 | |
| Fuel, Geo. M. Winslow & Co. . . | | 25 13 | |
| Gravel and Teaming, Owen Nawn . | | 234 30 | |
| Hardware, tools, etc.: | | | |
| Dodge, Haley & Co. . | $65 14 | | |
| Nathaniel Tufts . . | 94 87 | | |
| Sundry persons . . | 17 67 | | |
| | | 177 68 | |
| Iron work: | | | |
| E. B. Badger & Son . | $55 33 | | |
| P. J. Dinn . . . | 51 26 | | |
| Miller & Shaw . . | 277 27 | | |
| | | 383 86 | |
| *Amounts carried forward* . . | | $5,373 35 | $8,458 84 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $5,373 35 | $8,458 84 |
| Lumber: | | | |
| Geo. W. Gale Lumber Co. . . . . | $1,383 31 | | |
| Geo. McQuesten & Co. | 5 17 | | |
| A. M. Stetson & Co. . | 76 42 | | |
| | | 1,464 90 | |
| Piping for gas, Cambridge Gas Light Co. . . . . | | 437 50 | |
| Photographs, D. W. Butterfield . | | 42 50 | |
| Picture frames, John Golden . . | | 22 55 | |
| Repairing floor, Thomas Keyes . | | 76 17 | |
| Replanking bridge, Wm. L. Miller . | | 370 24 | |
| Sentry boxes, Norton Iron Co. . | | 385 40 | |
| Stationery and Printing: | | | |
| Heliotype Printing Co. | $37 50 | | |
| Rockwell & Churchill . | 17 62 | | |
| Sundry persons . . | 7 12 | | |
| | | 62 24 | |
| Sundry supplies . . . . | | 41 88 | |
| Total . . . . . | | | 8,276 73 |
| Balance unexpended . . . | | | $182 11 |

**Bridges, West Boston, Cragie's, and Prison Point.**

| | |
|---|---|
| Appropriation . . . . . | $8,700 00 |
| Surplus receipts . . . . . | 70 44 |
| | $8,770 44 |

RECEIVED.

| | | |
|---|---|---|
| For Rent, wharfage, etc. . . | $470 44 | |
| (The expenses of these bridges are divided equally between the cities of Boston and Cambridge, and the following amounts represent one-half the cost of maintenance.) | | |
| *Amount carried forward* . . . . . | | $8,770 44 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . . . . | | | $8,770 44 |

EXPENDED.

| | | | |
|---|---|---|---|
| For Salaries: | | | |
| Commissioner, Wm. J. Marvin . . . | $500 00 | | |
| Clerk, Chas. S. Parsons, | 250 00 | | |
| Drawtenders and assistants . . . | 2,356 36 | | |
| | | $3,106 36 | |
| Carpentry, Josiah Shaw . . . | | 849 00 | |
| Car tickets and messenger fees, Chas. S. Parsons . . . . | | 50 45 | |
| Cash expended by drawtenders for labor and supplies: | | | |
| M. F. Corkery . | $224 06 | | |
| A. W. Smith . . | 75 37 | | |
| N. E. Story . . | 142 34 | | |
| | | 441 77 | |
| Cleaning bridge . . . . | | 14 87 | |
| Damages, Jos. P. Cusick . . . | | 22 50 | |
| Electric lighting, Cambridge Electric Light Co. . . . . | | 900 00 | |
| Fuel, Geo. M. Winslow & Co. . . | | 221 50 | |
| Furniture and bedding, Paine's Furniture Co. . . . . | | 28 83 | |
| Hardware, tools, etc. | | | |
| Dodge, Haley & Co. . | $63 92 | | |
| Perrin, Seamans & Co. . | 29 87 | | |
| Sundry persons . . | 20 16 | | |
| | | 113 95 | |
| Insurance, Crosby & Stewart . . | | 12 25 | |
| Iron work, Miller & Shaw . . | | 145 25 | |
| Lumber: | | | |
| John S. Clary . . | $21 08 | | |
| John W. Leatherbee . | 212 79 | | |
| Pope & Paul . . | 25 47 | | |
| Geo. McQuesten & Co. | 196 86 | | |
| *Amounts carried forward* | $456 20 | $5,906 73 | $8,770 44 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $456 20 | $5,906 73 | $8,770 44 |
| L. A. Roby & Son . | 49 00 | | |
| A. M. Stetson . . | 356 50 | | |
| Sundry persons . | 12 43 | | |
| | | $874 13 | |
| Painting, John L. P. Ackers . . | | 256 49 | |
| Paving: | | | |
| F. H. Cowen & Co. . | $78 25 | | |
| Gore & Cowin . . | 468 33 | | |
| Payson & Co. . . | 89 95 | | |
| Josiah Shaw . . | 150 00 | | |
| | | 786 53 | |
| Roofing, John J. Blevins . . . | | 56 87 | |
| Sprinkling bridge, Proctor Bros. & Billings . . . . . | | 24 00 | |
| Stationery and printing: | | | |
| City of Boston . . | $19 71 | | |
| Rockwell & Churchill . | 13 32 | | |
| Sundry Persons . . | 6 87 | | |
| | | 39 90 | |
| Stone work, Austin Ford . . . | | 42 12 | |
| Supplies . . . . . | | 53 59 | |
| Teaming, Chas. Linehan . . . | | 96 80 | |
| Water rates, City of Boston . . | | 32 50 | |
| Total . . . . . | | | 8,174 66 |
| Balance unexpended . . . | | | $595 78 |

## Cambridge Cemetery.

| | |
|---|---|
| Appropriation . . . . . | $17,000 00 |
| Surplus revenue . . . | 2,517 33 |
| | $19,517 33 |

RECEIVED.

| | | |
|---|---|---|
| For Burials . . . | $4,661 00 | |
| Care of lots . . | 3,989 12 | |
| Foundations, brick graves, etc. . . . | 1,440 51 | |
| *Am'ts carried forward* | $10,090 63 | $19,517 33 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* | $10,090 63 | | $19,517 33 |
| Interest on Cemetery Fund | 981 12 | | |
| Rent | 200 00 | | |
| Sale of lots | 8,120 58 | | |
| Sundries | 125 00 | | |
| | | $19,517 33 | |

EXPENDED.

| | | | |
|---|---|---|---|
| For Salaries of | | | |
| Superintendent, Chas. S. Childs | $1,300 00 | | |
| Asst. Supt., Henry C. Hobbs | 827 60 | | |
| Bookkeeper, J. Watson Taylor | 918 62 | | |
| Clerk, Edw. J. Brandon | 100 00 | | |
| Laborers, as per pay rolls | 10,497 67 | | |
| | | 13,643 89 | |
| Bricks and Stone: | | | |
| M. W. Sands | $32 50 | | |
| J. Sullivan | 143 47 | | |
| | | 175 97 | |
| Car tickets, W. E. Street Railway Co. | | 25 00 | |
| Carriage hire: | | | |
| J. Callahan | $11 00 | | |
| Chas. W. Dailey | 5 00 | | |
| J. E. Fabyan | 21 50 | | |
| M. J. Fairbanks | 5 00 | | |
| Lake & Moynahan | 10 00 | | |
| J. O. Whitten | 5 00 | | |
| Daniel P. Shea | 4 00 | | |
| | | 61 50 | |
| Expressage, Hatch & Co. | | 5 50 | |
| Filling and teaming, John Doody | | 730 08 | |
| Fuel, H. G. Jordan & Co. | | 42 00 | |
| Grave covers, boxes, tablets, etc.: | | | |
| Joseph W. Grigg | $167 84 | | |
| *Amounts carried forward* | $167 84 | $14,683 94 | $19,517 33 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* | $167 84 | $14,683 94 | $19,517 33 |
| Grave covers, boxes, tablets, etc.: | | | |
| H. H. Matthews . . | 191 40 | | |
| Alex McDonald & Son | 87 00 | | |
| John McNamee & Sons | 145 00 | | |
| Sundry persons . . | 37 00 | | |
| | | 628 24 | |
| Hardware, tools and repairs: | | | |
| Burditt & Bynner . | $190 82 | | |
| Geo. O. Rollins . . | 33 36 | | |
| F. A. White . . | 17 65 | | |
| D. J. Wild & Co. . | 29 45 | | |
| Sundry persons . . | 14 68 | | |
| | | 285 96 | |
| Harness, J. F. Nolan . | | 19 25 | |
| Horse food: | | | |
| Jos. Hall . . . | $120 19 | | |
| Eng. Veg. Food Co. . | 4 00 | | |
| | | 124 19 | |
| Horse-shoeing, Wm. Balmer . . | | 36 17 | |
| House repairs: | | | |
| Carpentry, M. C. Beedle | $10 15 | | |
| Furnace and plumbing, D. C. Wild & Co. . | 115 64 | | |
| Roofing, J. J. Blevins . | 11 02 | | |
| Furnishings . . | 8 10 | | |
| | | 144 94 | |
| Lumber, lime and cement: | | | |
| N. N. Stickney . . | | 115 49 | |
| Manure: | | | |
| John Doody . . | $118 94 | | |
| Jos. Finnick . . | 67 50 | | |
| | | 186 44 | |
| Painting signs, E. Tucker | | 9 00 | |
| Plants and trees: | | | |
| Richard Gallivan . | $76 25 | | |
| Shady Hill Nurseries . | 78 40 | | |
| | | 154 65 | |
| Street sprinkling, Street Dept. . | | 58 00 | |
| *Amounts carried forward* . . | | $16,446 27 | $19,517 33 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $16,446 27 | $19,517 33 |
| Stationery, printing and postage: | | | |
| Amee Bros. . . | $33 97 | | |
| Chas. S. Childs . . | 56 00 | | |
| Cotton & Gould . . | 91 70 | | |
| J. Frank Facey . . | 23 50 | | |
| John Ford & Son . | 87 25 | | |
| Harvard Printing Co. . | 13 25 | | |
| Winkley, Dresser & Co. | 10 00 | | |
| | | 315 67 | |
| Supplies . . . . . | | 9 20 | |
| Water Supply: | | | |
| Cambridge Water Works . . | | 19 95 | |
| Total . . . . . | | | 16,791 09 |
| Balance unexpended . . . | | | $2,726 24 |

## Cambridge Public Library.

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $14,000 00 |
| RECEIVED. | | | |
| For Catalogues and fines . . . | | $268 22 | |
| Dog licenses for 1891 . . . | | 3,881 66 | |
| | | $4,149 88 | |
| EXPENDED. | | | |
| For Salaries of | | | |
| Librarian: | | | |
| Almira L. Hayward | $1,000 00 | | |
| Librarian's Assistants . | 3,242 45 | | |
| Janitors: | | | |
| Andrew J. Ayers . | 1,050 00 | | |
| James McVay . . | 20 00 | | |
| | | 5,312 45 | |
| Binding books, E. W. Bettinson . | | 915 97 | |
| Books, periodicals, etc.: | | | |
| Amee Bros. . . | 104 35 | | |
| *Amounts carried forward* | $104 35 | $6,228 42 | $14,000 00 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* | $104 35 | $6,228 42 | $14,000 00 |
| Books, periodicals, etc.: | | | |
| F. L. Beunke . . | 223 95 | | |
| Boston Book Co. . | 168 50 | | |
| W. B. Clarke & Co. . | 1,293 82 | | |
| Estes & Lauriat . . | 214 98 | | |
| Little, Brown & Co. . | 1,509 17 | | |
| Carl Schoenhof . . | 195 89 | | |
| C. W. Sever . . | 100 36 | | |
| Sundry persons . . | 376 27 | | |
| | | 4,187 29 | |
| Cash for sundries, A. L. Hayward . | | 75 34 | |
| Delivering Books: | | | |
| W. B. Cade . . | $408 21 | | |
| M. I. Dow . . . | 43 33 | | |
| E. C. Gove . . . | 65 62 | | |
| H. M. Grant . . | 57 08 | | |
| J. W. Hunnewell . | 57 49 | | |
| W. J. Gallagher . . | 57 50 | | |
| Edw. Thorndike . . | 70 00 | | |
| | | 759 23 | |
| Expressage, Sawin's Express . . | | 38 74 | |
| Fuel: Coleman Bros. . | $7 00 | | |
| Hunnewell & Proudfoot | 242 50 | | |
| Richardson & Bacon . | 204 50 | | |
| | | 454 00 | |
| For Furniture: | | | |
| Library Bureau . . . | $7 45 | | |
| Paine's Furniture Co. . | 33 00 | | |
| | | 40 45 | |
| Hardware, etc.: | | | |
| Burditt & Bynner . | $33 44 | | |
| Greene & Co. . . | 97 39 | | |
| | | 130 83 | |
| Ice, Fresh Pond Ice Co. . . . | | 9 25 | |
| Insurance, Chas. L. Fuller . . | | 288 00 | |
| Lamps, Beacon Vacuum P. & E. Co. | | 61 60 | |
| Lighting: | | | |
| Camb. Elec. Light Co. | $889 50 | | |
| Camb. Gas Light Co. . | 14 10 | | |
| | | 903 60 | |
| *Amounts carried forward* | | $13,176 75 | $14,000 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $13,176 75 | $14,000 00 |
| Services, A. K. Sweet . | | 14 00 | |
| Stationery, printing, etc.: | | | |
| Dennison Mfg. Co. . | $32 65 | | |
| John Ford & Son . | 184 13 | | |
| Pulsifer, Jordan & Co. | 42 01 | | |
| Sundry persons . . | 47 85 | | |
| W. H. Wheeler . . | 13 75 | | |
| John Wilson & Son . | 10 75 | | |
| | | 331 14 | |
| Sundry repairs: | | | |
| W. Fillmore . . | $41 67 | | |
| O. H. Springer . . | 17 75 | | |
| H. F. Peak . . | 25 93 | | |
| Sundry persons . . | 31 33 | | |
| | | 116 68 | |
| Total . . . . . | | | 13,638 57 |
| Balance unexpended . . . | | | $361 43 |

**City Clerk's Department.**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $5,900 00 |
| Surplus revenue . . . . | | | 508 79 |
| | | | $6,408 79 |
| RECEIVED. | | | |
| For fees from City Clerk . . . | | $2,708 79 | |
| EXPENDED. | | | |
| For services of | | | |
| City Clerk: | | | |
| Walter W. Pike | $3,000 00 | | |
| Assistant City Clerk, | | | |
| E. J. Brandon . | 1,200 00 | | |
| Clerks: | | | |
| Anne Jacobs . . | 262 20 | | |
| Sarah S. Jacobs . | 345 35 | | |
| Carrie E. Estes . | 34 00 | | |
| Amanda Richardson | 73 50 | | |
| | | 4,915 05 | |
| *Amounts carried forward* . . | | $4,915 05 | $6,408 79 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $4,915 05 | $6,408 79 |
| Binding Documents: | | | |
| J. H. H. McNamee . | | 11 25 | |
| Badges, A. W. Mitchell Mfg. Co. | | 30 00 | |
| Canvassing for births: | | | |
| John M. Davis . . | $66 00 | | |
| Wm. F. Ellis . . | 48 00 | | |
| E. B. Getchell . . | 51 00 | | |
| Warren Ivers . . | 72 00 | | |
| J. E. Lennon . . | 66 75 | | |
| | | 303 75 | |
| Car tickets, W. E. St. Railway Co. | | 5 00 | |
| Directories . . . . . | | 7 50 | |
| Electric Fixtures, N. W. Turner Co. | | 17 50 | |
| Furniture, Phillips Bros. & Co. . | | 6 75 | |
| Newspapers, F. L. Beunke . . | | 6 00 | |
| Posting notices, J. A. McLane . | | 6 00 | |
| Redeeming Badges, W. W. Pike . | | 15 60 | |
| Reporting Birth, Sundry Physicians . . . . . | | 205 50 | |
| Reporting Deaths, P. H. Rafferty | | 3 00 | |
| Serving Notices: | | | |
| John M. Davis . . | $63 40 | | |
| F. E. Shaw . . | 22 00 | | |
| | | 85 40 | |
| Stationery, printing, postage, etc.: | | | |
| James H. Cox . . | $36 25 | | |
| John Ford & Son . | 13 00 | | |
| J. Frank Facey . . | 28 00 | | |
| Cotton & Gould . . | 96 81 | | |
| Harvard Printing Co. | 49 20 | | |
| E. W. S. Jones . . | 29 50 | | |
| G. W. Ring . . | 32 00 | | |
| Stationery Dept. . | 74 12 | | |
| Sundry persons . . | 19 50 | | |
| | | 378 38 | |
| Total . . . . . | | | 5,996 68 |
| Balance unexpended . . | | | $412 11 |

## City Messenger's Department.

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $2,600 00 |
| EXPENDED. | | | |
| For Salaries of | | | |
| City Messenger : | | | |
| Francis L. Pratt . | $1,800 00 | | |
| Assistant : | | | |
| Wm. A. Walker . | 455 00 | | |
| | | $2,255 00 | |
| Carriage hire : | | | |
| J. E. Fabyan . . | $5 00 | | |
| M. J. Fairbanks . . | 3 00 | | |
| | | 8 00 | |
| Car Tickets, W. E. St. Railway Co. | | 45 00 | |
| Directories : | | | |
| W. A. Greenough & Co. . . . | $4 50 | | |
| Sampson, Murdock & Co. . . . | 5 00 | | |
| | | 9 50 | |
| Expressage : | | | |
| Hatch & Co. . . | $56 90 | | |
| Savage & Son . . | 2 70 | | |
| | | 59 60 | |
| Railroad Guide, J. A. & R. A. Reid | | 1 50 | |
| Rent of P. O. Box . . . . | | 4 00 | |
| Stationery, printing, and postage : | | | |
| John Ford & Son | $8 50 | | |
| G. M. Ring . . | 60 00 | | |
| Stationery Department . . . | 62 26 | | |
| | | 130 76 | |
| Telephone tolls, N. E. Tel. Co. . | | 4 80 | |
| Total . . . . . | | | 2,518 16 |
| Balance unexpended | | | $81 84 |

## City Treasurer's Department.

| | | | |
|---|---|---|---|
| Appropriation. . . . . | | | $12,500 00 |
| | RECEIVED. | | |
| For Advertising Loan . | $14 00 | | |
| Collector's Fees . . | 1,443 58 | | |
| | | $1,457 58 | |
| | EXPENDED. | | |
| For Salaries of | | | |
| City Treasurer: | | | |
| Wm. W. Dallinger . | $3,000 00 | | |
| Clerks: | | | |
| E. G. Stevens . . | 1,397 50 | | |
| E. J. Howlett . . | 1,050 00 | | |
| C. H. Dodge . . | 891 00 | | |
| J. H. Webber . . | 882 50 | | |
| Temporary Clerks . | 841 75 | | |
| | | 8,062 75 | |
| Advertising: | | | |
| Boston Daily Advertiser | $51 75 | | |
| James Cox . . . | 71 20 | | |
| | | 122 95 | |
| Carriage hire, M. J. Fairbanks . . | | 353 00 | |
| Car tickets, W. E. Street Railway Co. | | 25 00 | |
| Commissions for collecting poll taxes: | | | |
| Joseph Fox . . | $502 50 | | |
| Warren Ivers . . | 826 00 | | |
| Frank H. Lull . . | 246 00 | | |
| | | 1,574 50 | |
| Directories . . . | | 9 50 | |
| Recording Deeds . . | | 20 50 | |
| Stationery, printing and postage: | | | |
| American Bank Note Co. | $90 00 | | |
| Cotton & Gould . . | 94 22 | | |
| James H. Cox . . | 98 75 | | |
| Wm. W. Dallinger . | 881 60 | | |
| John Ford & Son . | 143 00 | | |
| Harvard Printing Co. . | 4 95 | | |
| Stationery Dept. . | 43 15 | | |
| L. W. Poole . . | 14 75 | | |
| | | 1,370 42 | |
| Telephone rent and tolls, N.E.Tel.Co. | | 142 00 | |
| Total . . . . . | | | 11,680 62 |
| Balance unexpended . . . | | | $819 38 |

## Civil Service Department.

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $225 00 |
| EXPENDED. | | | |
| For salary of | | | |
| Registration Clerk, Harry L. Lincoln | | $200 00 | |
| Account Books: | | | |
| Cotton & Gould . . | $6 25 | | |
| Winkley, Dresser & Co. | 2 25 | | |
| | | 8 50 | |
| Desk and rails: | | | |
| W. H. Norris . . | $15 00 | | |
| J.H.& J.P.Thayer & Co. | 1 00 | | |
| | | 16 00 | |
| Keys, C. L. Bradlee . . . | | 50 | |
| Total . . . . . | | | $225 00 |

## Clerk of Committees Department.

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $3,500 00 |
| EXPENDED. | | | |
| For salaries of | | | |
| Clerk of Committees, | | | |
| John McDuffie . | $2,400 00 | | |
| Assistant, Eben W. | | | |
| Pike . . . | 840 00 | | |
| | | $3,240 00 | |
| Binding documents, | | | |
| J. H. H. McNamee . . . | | 3 00 | |
| Directories . . . . . | | 7 50 | |
| Repairs on Typewriter, | | | |
| Geo. H. Richter & Co. . . . | | 14 90 | |
| Stationery, printing and postage: | | | |
| James H. Cox . . | $35 50 | | |
| Cotton & Gould . . | 13 77 | | |
| Harvard Printing Co. . | 1 75 | | |
| L. W. Poole . . | 5 25 | | |
| Geo. W. Ring . . | 20 00 | | |
| Geo. H. Richter & Co. | 2 55 | | |
| Stationery Dept . . | 107 30 | | |
| | | 186 12 | |
| Total . . . . . | | | 3,451 52 |
| Balance unexpended . . . | | | $48 48 |

## Election Expenses (City Clerk).

| | | |
|---|---|---|
| Appropriation . . . . . | | $4,800 00 |
| Transferred from Incidental Expenses | | 11 21 |
| | | $4,811 21 |

EXPENDED.

| | | |
|---|---|---|
| For Advertising in | | |
| Cambridge Chronicle . | $14 00 | |
| Cambridge Democrat . | 14 00 | |
| Cambridge News . | 25 00 | |
| Cambridge Press . | 9 30 | |
| Cambridge Tribune . | 60 25 | |
| | | $122 55 |
| Binding Ballots, J. H. H. McNamee | | 54 25 |
| Boxes, Chas. Place . . . . | | 5 50 |
| Carpentry, W. H. Norris . . . | | 18 38 |
| Carriage hire: | | |
| M. J. Fairbanks . . | $22 00 | |
| Samuel Giddings . | 10 00 | |
| J. O. Whitten . . | 11 50 | |
| | | 43 50 |
| Car tickets, W. E. St. Railway Co. | | 5 00 |
| Clerical Assistance: | | |
| Martha R. Baldwin . | $2 50 | |
| Anne Jacobs . . | 30 00 | |
| Amanda Richardson . | 15 00 | |
| | | 47 50 |
| Precinct Maps, Heliotype Printing Co. | | 200 00 |
| Refreshments for Precinct Officers: | | |
| M. R. Jones . . | $33 00 | |
| H. G. Schwartz . . | 53 00 | |
| | | 86 00 |
| Repairing Ballot Boxes, Edmund Hoxie . . . . . | | 6 10 |
| Ringing Bells on Election Days . | | 24 00 |
| Services of Precinct Officers, as per pay rolls, . . . . | | 3,006 00 |
| Services of Police Officers, as per pay rolls, . . . . . | | 250 00 |
| *Amounts carried forward* . . | | $3,868 78 $4,811 21 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $3,868 78 | $4,811 21 |
| Services of Thos. J. Denton . . | | 42 78 | |
| Serving warrants, posting notices, etc.: | | | |
| A. F. Chadwick . . | $3 00 | | |
| John M. Davis . . | 61 00 | | |
| Warren Ivers . . | 3 50 | | |
| Fred A. Lull . . | 11 00 | | |
| F. E. Shaw . . . | 10 75 | | |
| | | 89 25 | |
| Stationery, printing and postage: | | | |
| James H. Cox . . | $60 25 | | |
| Cotton & Gould . . | 82 77 | | |
| J. Frank Facey . . | 44 75 | | |
| John Ford & Son . | 442 75 | | |
| Harvard Printing Co. . | 84 25 | | |
| Stationery Dept. . | 8 40 | | |
| | | 723 17 | |
| Supplies, Burditt & Bynner | $8 73 | | |
| H. C. Dimond & Co. . | 12 00 | | |
| J. H. & J. P. Thayer & Co. | 50 | | |
| | | 21 23 | |
| Use of Barges: | | | |
| W. E. St. Railway Co. | $50 00 | | |
| John Nixon . . | 16 00 | | |
| | | 66 00 | |
| Total . . . . . | | | $4,811 21 |

**Election Expenses (Registrars of Voters).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $3,100 00 |
| Transferred from Incidental Expenses | | | 1,120 82 |
| | | | $4,220 82 |
| EXPENDED. | | | |
| For Salaries of Registrars and Clerks: | | | |
| Isaac Bradford . . | $500 00 | | |
| Wm. J. Breen . . | 500 00 | | |
| James Cox . . . | 500 00 | | |
| Horace K. Osborn . | 600 00 | | |
| Clerks: | | | |
| Anne Jacobs . . | 203 00 | | |
| Mary McGuigan . | 139 00 | | |
| | | $2,442 00 | |
| *Amounts carried forward* . . | | $2,442 00 | $4,220 82 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $2,442 00 | $4,220 82 |
| Advertising in | | | |
| Cambridge Chronicle . | $28 50 | | |
| Cambridge Democrat . | 15 00 | | |
| Cambridge News . | 32 99 | | |
| Cambridge Press . | 28 25 | | |
| Cambridge Tribune . | 36 75 | | |
| | | 141 49 | |
| Binding Voting Lists: | | | |
| E. W. Bettinson . . . . | | 74 75 | |
| Carpentry, W. H. Norris . . | | 77 05 | |
| Carriage hire, M. J. Fairbanks . | | 24 00 | |
| Directory, W. A. Greenough & Co. . | | 2 50 | |
| Furniture, Phillips Bros. & Co. . | | 85 00 | |
| Maps, W. A. Greenough & Co. . | | 4 20 | |
| Posting Voting Lists, J. A. McLane | | 137 00 | |
| Services: | | | |
| John M. Davis . . | $0 50 | | |
| J. F. Osborn . . | 10 00 | | |
| Elizabeth A. McGinnis | 11 00 | | |
| | | 21 50 | |
| Stationery and Printing: | | | |
| James H. Cox . . | $68 05 | | |
| E. W. S. Jones . . | 40 25 | | |
| John Wilson & Son . | 1,085 19 | | |
| Sundry persons . . | 17 84 | | |
| Total . . . . . | | 1,211 33 | |
| | | | $4,220 82 |

**Election Expenses (Superintendent of Public Buildings).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $600 00 |
| Transferred from Incidental Expenses | | | 925 46 |
| | | | $1,525 46 |
| EXPENDED. | | | |
| For Carpentry, W. H. Norris . . | | $426 47 | |
| Fuel, H. G. Jordan & Co . . | | 5 00 | |
| Lamps: | | | |
| Geo. F. Dickson . . | $9 14 | | |
| J. M. Oxford & Co. . | 3 75 | | |
| | | 12 89 | |
| *Amounts carried forward* . . | | $444 36 | $1,525 46 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $444 36 | $1,525 46 |
| Moving Compartments, J. A. & C. S. Hersum . . . . . | | 11 00 | |
| Preparing rooms for voting purposes: | | | |
| Sundry persons . . . . | | 395 11 | |
| Rent of Halls for Caucuses and Elections: | | | |
| Chas. Beck Post No. 56, G. A. R. . . | $65 00 | | |
| Co.B.5th Reg't M.V.M. | 30 00 | | |
| Cambridge Lyceum . | 91 00 | | |
| Citizens' Trade Association . . . | 45 00 | | |
| E. L. Green . . | 15 00 | | |
| John McSorley . . | 20 00 | | |
| Odd Fellows Hall Association . . | 20 00 | | |
| Salvation Army . . | 25 00 | | |
| St. John's Literary Institute . . . | 20 00 | | |
| Union Hall Association . . . | 315 00 | | |
| | | 646 00 | |
| Sawdust and supplies . . . | | 28 99 | |
| Total . . . . . | | | $1,525 46 |

## Engineering Department.

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $9,500 00 |
| Transferred from Incidental Expenses | | | 402 11 |
| | | | $9,902 11 |
| EXPENDED. | | | |
| For Salaries of | | | |
| City Engineer, Lewis M. Hastings . . | $3,000 00 | | |
| Assistants . . . | 6,121 75 | | |
| Clerk, Mary E. Rowen | 253 50 | | |
| | | $9,375 25 | |
| *Amounts carried forward* . . | | $9,375 25 | $9,902 11 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $9,375 25 | $9,902 11 |
| Boundary posts, Wight & Scorgie, | | 24 00 | |
| Car tickets, W. E. St. Railway Co., | | 125 00 | |
| Carriage hire: | | | |
| J. E. Fabyan . . | $14 00 | | |
| M. J. Fairbanks . . | 32 00 | | |
| | | 46 00 | |
| Care of rain gauge, A. S. Fiske . | | 25 00 | |
| Directory, Sampson, Murdock & Co. | | 5 00 | |
| Drawing materials, stationery, etc.: | | | |
| Frost & Adams . . | $24 88 | | |
| Cotton & Gould . . | 56 15 | | |
| Keystone Blue Paper Co. | 4 73 | | |
| Stationery Department. | 32 94 | | |
| Wadsworth, Howland & Co. . . . . | 51 58 | | |
| | | 170 28 | |
| Expenses, L. M. Hastings . . | | 5 83 | |
| Expressage, Savage & Son . . | | 3 65 | |
| Furniture, Phillips Bros. & Co. . | | 14 05 | |
| Glass, Lambert Bros. . . . | | 3 44 | |
| Printing: | | | |
| James H. Cox . . | $5 25 | | |
| Harvard Printing Co. | 7 70 | | |
| | | 12 95 | |
| Tools, instruments and repairs: | | | |
| Buff & Berger . . | $6 90 | | |
| James Maitland . . | 3 40 | | |
| Miller & Shaw . . | 3 84 | | |
| F. A. White . . | 21 65 | | |
| Sundry persons . . | 10 22 | | |
| | | 46 01 | |
| Sundry supplies . . . . | | 13 65 | |
| Use of boat and float, Gabriel Farrell | | 32 00 | |
| Total . . . . . | | | $9,902 11 |

## Executive Department.

| | | |
|---|---|---|
| Appropriation . . . . | | $4,500 00 |
| EXPENDED. | | |
| For salaries of | | |
| Mayor: | | |
| Alpheus B. Alger . | $3,416 70 | |
| Clerk: | | |
| Edw. A. Counihan . | 592 13 | |
| | $4,008 83 | |
| Book, J. J. W. Reeves . . . | 2 50 | |
| Car tickets, W. E. St. Railway Co. . | 5 00 | |
| Entertainment of guests: | | |
| Carriage hire . . | $87 00 | |
| Refreshments . . | 81 25 | |
| | 168 25 | |
| Office furniture, Phillips Bros. & Co. | 45 00 | |
| Stationery, printing and postage . | 158 37 | |
| Total . . . . . | | 4,387 95 |
| Balance unexpended . . | | $112 05 |

## Fire Department.

| | | |
|---|---|---|
| Appropriation . . . . . | | $61,000 00 |
| Revenue . . . . . | | 16 60 |
| | | $61,016 60 |
| EXPENDED. | | |
| For salaries of | | |
| Chief Engineer: | | |
| T. J. Casey . . | $1,583 30 | |
| District Chiefs: | | |
| N. W. Bunker . | 375 00 | |
| C. W. Brackett . | 375 00 | |
| W. B. Cade . . | 375 00 | |
| Permanent men, as per pay rolls . . . | 28,031 11 | |
| Call men, as per pay rolls: . . . | 14,755 77 | |
| *Am'ts carried forward* | $45,495 18 | $61,016 60 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $45,495 18 | $61,016 60 |
| For salaries of Substitutes: | | | |
| Chas. Barney . . | $598 75 | | |
| C. W. Brackett . | 46 10 | | |
| Geo. W. Butler . | 790 00 | | |
| J. S. Casey . . | 367 50 | | |
| John H. Kelley . | 5 00 | | |
| James McCabe . | 29 50 | | |
| G. F. Tibbetts . | 99 00 | | |
| | | 47,431 03 | |
| Apparatus (new):— | | | |
| Perfection Holder: | | | |
| Sam'l Eastman & Co. | $35 00 | | |
| Extinguisher bottles: | | | |
| J. Hinman . . | 10 00 | | |
| Pump, Success Acid Pump Co. . . | 10 00 | | |
| Fuel wagon: | | | |
| Chas. Waugh & Co. | 295 00 | | |
| Hose wagon: | | | |
| Abbott-Downing Co. | 450 00 | | |
| | | 800 00 | |
| Apparatus repairs: | | | |
| American Steam Gauge Co. . . . . | $1 25 | | |
| Wm. Campbell & Co. | 6 08 | | |
| C. Callahan Co. . . | 21 50 | | |
| F. L. Chapman . . | 47 75 | | |
| F. Ivers & Son . . | 76 70 | | |
| John Lane . . . | 72 90 | | |
| Manchester Loco. W'ks | 1,627 80 | | |
| Miller & Shaw . . | 14 80 | | |
| George McIntosh . | 175 75 | | |
| George Patterson . | 17 80 | | |
| Scrannage Bros. . . | 94 75 | | |
| W. C. Smith . . | 18 00 | | |
| Geo. O. Rollins . . | 26 70 | | |
| Chas. Waugh & Co. . | 13 00 | | |
| J. R. Worthen . . | 8 62 | | |
| | | 2,223 40 | |
| *Amounts carried forward* . . | | $50,454 43 | $61,016 60 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $50,454 43 | $61,016 60 |
| Asbestos, Barbour, Stockwell & Co. . | | 5 81 | |
| Badges, H. M. Richards & Co. . . | | 1 50 | |
| Brushes, brooms, dusters, etc.: | | | |
| Chas. A. Austin & Co. | $21 00 | | |
| Chas. P. Keith . . | 30 00 | | |
| | | 51 00 | |
| Buttons, Scovill Mfg. Co. | | 44 55 | |
| Cap Devices, H. M. Richards & Co. | | 15 94 | |
| Care of hydrants: | | | |
| E. E. Alley . . . | $16 50 | | |
| C. W. Brackett . . | 8 00 | | |
| Geo. W. Butler . . | 8 00 | | |
| W. B. Cade . . | 4 00 | | |
| Geo. F. Tibbetts . . | 4 00 | | |
| | | 40 50 | |
| Carriage hire: | | | |
| Chas. W. Dailey . | $10 00 | | |
| H. K. Parsons & Co. . | 2 00 | | |
| | | 12 00 | |
| Cash expended for travelling expenses, | | | |
| T. J. Casey . . . . . | | 66 05 | |
| Cleaning carpets, Geo. F. Ricker . | | 5 19 | |
| Copper Waste, Edw. H. Haskell . | | 27 18 | |
| Clock repairs, Jas. A. Rice . . | | 3 00 | |
| Directory, W. A. Greenough & Co. . | | 2 50 | |
| Expressage: | | | |
| H. W. Bettinson & Co. | $2 40 | | |
| T. A. Callaghan . . | 2 00 | | |
| Colby Bros. . . | 2 50 | | |
| Hatch & Co. . . | 1 10 | | |
| Savage & Son . . | 18 85 | | |
| | | 26 85 | |
| Fuel: | | | |
| L. G. Burnham & Co. | $395 95 | | |
| Coleman Bros. . . | 64 00 | | |
| H. G. Jordan & Co. . | 358 79 | | |
| Wellington & Buck . | 19 20 | | |
| H. Wellington & Co. . | 393 85 | | |
| | | 1,231 79 | |
| *Amounts carried forward* . . | | $51,988 29 | $61,016 60 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $51,988 29 | $61,016 60 |
| Furniture and bedding: | | | |
| Dana W. Hyde . . | $80 75 | | |
| Phillips Bros. & Co. . | 27 00 | | |
| Worcester Bros. . | 132 25 | | |
| | | 240 00 | |
| Gas, Cambridge Gas Light Co. . . | | 992 95 | |
| Hardware, tools and supplies: | | | |
| Burditt & Bynner . | $128 47 | | |
| Brock Bros. . . | 8 91 | | |
| H. N. Hovey & Co. . | 2 52 | | |
| J. M. Price & Son . | 1 55 | | |
| James Maitland . . | 4 50 | | |
| F. A. White . . | 4 70 | | |
| Geo. A. Wood & Co. . | 1 93 | | |
| | | 152 58 | |
| Harness and repairs: | | | |
| Chas. E. Berry . . | $11 00 | | |
| M. Cavanagh . . | 14 60 | | |
| Owen Doherty . . | 222 40 | | |
| John Hancock . . | 60 25 | | |
| F. Ivers & Son . . | 4 85 | | |
| Wm. Mitchell . . | 66 05 | | |
| G. A. Morse . . | 22 88 | | |
| | | 402 03 | |
| Hay, grain and straw: | | | |
| J. S. Bradeen . . | $1,110 42 | | |
| W. F. Holmes . . | 12 41 | | |
| McPherson Bros. . | 2,039 46 | | |
| B. F. Rogers . . | 92 65 | | |
| | | 3,258 94 | |
| Horses: | | | |
| P. H. Dardis . . | $405 00 | | |
| Wm. K. Porter . . | 325 00 | | |
| | | 730 00 | |
| Horse hire: | | | |
| John J. Brassil . . | $117 50 | | |
| Elizabeth Cox . . | 53 50 | | |
| T. A. Callaghan . . | 67 00 | | |
| John Doody . . | 78 00 | | |
| *Amounts carried forward* | $316 00 | $57,764 79 | $61,016 60 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* | $316 00 | $57,764 79 | $61,016 60 |
| Horse hire: | | | |
| Elliot & Duvey | $107 00 | | |
| Samuel Giddings | 6 00 | | |
| M. F. Lamb | 33 00 | | |
| Thomas McSorley | 64 00 | | |
| H. K. Parsons & Co. | 10 00 | | |
| | | 536 00 | |
| Horse blankets, H. K. Parsons & Co. | | 15 00 | |
| Horse Medicine, Henry Thayer & Co. | | 65 65 | |
| Horse shoeing: | | | |
| Wm. Balmer | $41 98 | | |
| Wm. Bell | 60 00 | | |
| James Bolger | 57 25 | | |
| T. Burke | 31 00 | | |
| P. J. Callahan | 65 00 | | |
| Edw. E. Donahue & Co. | 51 75 | | |
| Wm. F. Garrett & Co. | 67 00 | | |
| John F. Gurry | 27 50 | | |
| James Moley | 34 50 | | |
| Thomas Smith | 76 00 | | |
| | | 511 98 | |
| Hose, couplings and repairs: | | | |
| Boston Woven Hose Co. | | 1,444 25 | |
| Ice: | | | |
| Cambridge Ice Co. | $19 20 | | |
| Fresh Pond Ice Co. | 24 44 | | |
| | | 43 64 | |
| Ladders, C. W. H. Moulton & Co. | | 3 50 | |
| Oil: | | | |
| Lustralis Oil Co. | $24 00 | | |
| Maverick Oil Co. | 25 10 | | |
| William F. Nye | 12 00 | | |
| Standard Oil Co. | 8 09 | | |
| | | 69 19 | |
| Packing, Gould Packing Co. | | 3 00 | |
| Remaking mattress, Geo. F. Ricker | | 5 75 | |
| *Amounts carried forward* | | $60,462 75 | $61,016 60 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* . . | | 60,462 75 | $61,016 60 |
| Refreshments: | | | |
| P. A. Garvey . . | $14 00 | | |
| M. R. Jones . . | 7 00 | | |
| | | 21 00 | |
| Sawdust, shavings: | | | |
| C. W. H. Moulton & Co. | $5 00 | | |
| Geo. G. Page Box Co. | 1 50 | | |
| | | 6 50 | |
| Soap, Frank H. Teele . | | 11 80 | |
| Stationery and printing: | | | |
| Jas. H. Cox . . | $25 67 | | |
| Cotton & Gould . . | 3 72 | | |
| John Ford & Son . | 4 50 | | |
| Harvard Printing Co. . | 21 80 | | |
| Stationery, etc. . . | 6 59 | | |
| | | 62 28 | |
| Supplies: | | | |
| C. W. Carman . . | $10 56 | | |
| S. F. Hayward & Co. . | 10 00 | | |
| J. A. Holmes & Co. . | 3 50 | | |
| M. R. Jouett & Co. . | 4 87 | | |
| A. J. Morse & Son . | 2 34 | | |
| Ryder & Davis . . | 5 43 | | |
| | | 36 70 | |
| Vitriol, etc., Poore, Towne & Co. . | | 95 93 | |
| Whips, Darling's Whip Co. . . | | 10 49 | |
| Weighing Coal, H. W. Brooks . . | | 6 48 | |
| Wood Turning, M. E. Rideout . . | | 2 00 | |
| Washing bedding, etc.: | | | |
| A. S. Benson . . | $24 18 | | |
| R. Cartwright . . | 13 31 | | |
| M. E. Chapman . . | 34 06 | | |
| L. C. Clark . . . | 21 36 | | |
| Mrs. N. F. Conners . | 23 20 | | |
| Mrs. J. A. Foss . . | 29 73 | | |
| Thomas Minnaugh . | 27 06 | | |
| E. A. Newman . . | 34 13 | | |
| Charlotte A. Priest . | 56 77 | | |
| J. E. Ricker . . | 36 75 | | |
| | | 300 55 | |
| Total . . . . . | | | 61,016 48 |
| Balance unexpended . . . | | | $0 12 |

## Health Department.

| | | |
|---|---|---|
| Appropriation . . . . . | | $4,500 00 |
| Transferred from Incidental Expenses | | 500 00 |
| | | $5,000 00 |

EXPENDED.

| | | | |
|---|---|---|---|
| For salaries of | | | |
| Medical Inspector, Dr. | | | |
| E. Farnham . . | $1,500 00 | | |
| Sanitary Inspectors: | | | |
| Chas. S. Lincoln . | 169 20 | | |
| Edw. F. Chase . | 769 90 | | |
| Wm. A. Ford . . | 769 90 | | |
| Clerk, John McDuffie . | 225 00 | | |
| Secretary, Jas. B. Soper | 51 58 | | |
| | | $3,685 58 | |
| Advertising: | | | |
| James Cox . . . | $15 40 | | |
| Cambridge Chronicle . | 58 00 | | |
| F. Stanhope Hill . | 56 50 | | |
| | | 129 90 | |
| Cash paid for burying dead animals: | | | |
| Thos. H. Lucy . . | $11 75 | | |
| C. C. Marston . . | 1 25 | | |
| Wm. Murphy . . | 19 00 | | |
| John F. Murray . . | 16 50 | | |
| D. A. Stevens . . | 1 00 | | |
| | | 49 50 | |
| Carpentry, W. H. Norris . . . | | 9 85 | |
| Car tickets, West End Street Railway | | 225 00 | |
| Cow-pox points, H. A. Martin & Son | | 21 00 | |
| Carriage hire: | | | |
| F. D. Bartlett . . | $6 00 | | |
| Chas. W. Dailey . . | 6 00 | | |
| M. J. Fairbanks . . | 9 50 | | |
| | | 21 50 | |
| Distributing notices, John M. Davis . | | 27 00 | |
| Directory, W. A. Greenough & Co. . | | 2 50 | |
| Drugs, O. H. Webber . . . | | 3 50 | |
| *Amounts carried forward* . . | | $4,175 33 | $5,000 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $4,175 33 | $5,000 00 |
| Expressage, Savage & Son . . | | 45 | |
| Lunch, M. R. Jones . . . . | | 10 00 | |
| Services as Inspector, Geo. U. Young | | 19 75 | |
| Services on river patrol and use of boats: | | | |
| Robert Banks . . | $68 60 | | |
| G. Farrell . . . | 4 00 | | |
| Geo. Jarvis . . . | 36 60 | | |
| Geo. U. Young . . | 118 50 | | |
| | | 227 70 | |
| Serving notices, Sundry constables . | | 67 88 | |
| Signs, W. J. Edwards . . . | | 10 00 | |
| Supplies, Burditt & Bynner . . | | 9 27 | |
| Stationery, printing, postage: | | | |
| A. Bennett & Co. . | $00 40 | | |
| Cotton & Gould . . | 42 34 | | |
| James H. Cox . . | 77 25 | | |
| J. L. Fairbanks . . | 9 65 | | |
| Harvard Printing Co. . | 25 75 | | |
| Library Bureau . . | 7 50 | | |
| Wm. H. Wheeler . | 75 85 | | |
| Winkley, Dresser & Co. | 24 50 | | |
| | | 263 24 | |
| Use of Steam Launch, Capt. Young. | | 25 00 | |
| Vaccinations, Dr. F. A. Dunbar . | | 79 00 | |
| Total . . . . . | | | $4,887 62 |
| Balance unexpended . . . | | | $112 38 |

**Incidental Expenses.**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | 25,000 00 |
| Transferred from Interest . . | | $2,500 00 | |
| Sewers, Maintenance . . . | | 4,500 00 | |
| Surplus revenue . . . . | | 6,042 60 | |
| | | | 13,042 60 |
| *Amount carried forward* . . | | | $38,042 60 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . | | | $38,042 60 |
| Transferred to | | | |
| Assessors' Department . . . | | $365 86 | |
| Bridge, Harvard . . . . | | 1,300 00 | |
| xpenses : | | | |
| City Clerk . . | $11 21 | | |
| Registrars of Voters | 1,120 82 | | |
| Supt. of Buildings . | 925 46 | | |
| | | 2,057 49 | |
| Engineering . . . . . | | 402 11 | |
| Health Department . . . . | | 500 00 | |
| Law Department . . . . | | 41 87 | |
| Overseers of the Poor, House Offal | | | |
| Department . . . . | | 2,840 86 | |
| Police Department . . . | | 4,000 00 | |
| Public Property : | | | |
| City Buildings . . | $105 49 | | |
| School Houses . . | 4,114 65 | | |
| New Engine House . | 695 00 | | |
| New High School . | 2,500 00 | | |
| Old High School . | 3,400 00 | | |
| Incidentals . . | 704 40 | | |
| | | 11,519 54 | |
| School Department Salaries . . | | 4,016 90 | |
| Sealer of Weights and Measures . | | 350 00 | |
| State Aid . . . . . | | 529 80 | |
| Stationery and Printing . . . | | 300 00 | |
| Street Department : | | | |
| Bridges, Construction . | $1,600 00 | | |
| Shade Trees and Pub- | | | |
| lic Grounds . . | 800 00 | | |
| | | 2,400 00 | 30,624 43 |
| | | | $7,418 17 |

RECEIVED.

| | | | |
|---|---|---|---|
| For Licenses : | | | |
| Grease . . . | $35 00 | | |
| Hawkers and Peddlers | 225 00 | | |
| Liquor . . . | 44 00 | | |
| | | 304 00 | |
| *Amounts carried forward* . . | | $304 00 | $7,418 17 |

| | | |
|---|---|---|
| *Amounts brought forward* . . | $304 00 | $7,418 17 |
| Old Taxes . . . . . | 183 60 | |
| Premiums on Bonds . . . | 4,650 00 | |
| Release of land corner of Jefferson and Warren Streets . . . | 100 00 | |
| Release of rights in Lyceum Hall . | 800 00 | |
| Rent of land on Walden Street . | 5 00 | |
| | $6,042 60 | |

EXPENDED.

| | | | |
|---|---|---|---|
| For Ambulance fees, Chas. W. Dailey | | 116 00 | |
| City Council Expenses: | | | |
| Carriage hire . . | $123 00 | | |
| Car tickets . . . | 300 00 | | |
| City Seal . . . | 35 00 | | |
| Expenses of Board of Aldermen and others to Milford, Mass. . | 36 78 | | |
| Gavel . . . . | 1 75 | | |
| Refreshments . . | 113 00 | | |
| Salaries of: | | | |
| Clerk of Common Council, E. J. Brandon . | 300 00 | | |
| Page, W. A. Walker . | 75 00 | | |
| Stationery . . . | 12 50 | | |
| | | 997 03 | |
| Damages awarded: | | | |
| James A. Anderson . | $35 00 | | |
| James S. Hardy . . | 300 00 | | |
| Michael Halloran . | 300 00 | | |
| Dr. H. O. Marcy . . | 978 21 | | |
| James McNeill . . | 150 00 | | |
| Mary Moylan . . | 50 00 | | |
| James Trobucco . . | 83 38 | | |
| | | 1,896 59 | |
| Fence in rear of City Hall: | | | |
| Simpson and Fenwick . . . | | 154 00 | |
| Floral Design, Walter H. Murdock . | | 25 00 | |
| *Amounts carried forward* . . | | $3,188 62 | $7,418 17 |

| | | | |
|---|---|---|---|
| *Amounts carried forward* . . | | $3,188 62 | $7,418 17 |
| Harbor Master's Department: . . | | | |
| Salary, Wm. J. Marvin | $100 00 | | |
| Stationery . . . | 13 12 | | |
| | | 113 12 | |
| High School Exhibition, F. A. Hill . | | 50 00 | |
| Invalid tax titles: | | | |
| Michael Barrett . . | $10 47 | | |
| Stephen P. Weld . | 546 60 | | |
| | | 557 07 | |
| Memorial Day Appropriation for the G. A. R. . . . . | | 1,000 00 | |
| New High School Reception Expenses | | 100 00 | |
| Park Committee Expenses: | | | |
| Advertising . . | $2 50 | | |
| Carriage hire . . | 47 00 | | |
| Record Book . . | 5 25 | | |
| | | 54 75 | |
| Printing papers in Watson Case, Theo. C. Hurd . . . . | | 22 40 | |
| For Professional Services: | | | |
| Dr. H. B. McIntire . | $10 00 | | |
| Dr. C. L. Scudder . | 50 00 | | |
| | | 60 00 | |
| Ringing Bells on Holidays . . | | 66 00 | |
| Revised Ordinances: | | | |
| Binding, J. H. H. McNamee . . . | $30 00 | | |
| Printing, Cashman, Keating & Co. . | 960 12 | | |
| Services of | | | |
| Chas. J. McIntire . | 250 00 | | |
| Walter W. Pike . | 250 00 | | |
| Charles Walker . | 5 00 | | |
| | | 1,495 12 | |
| Services of Experts: | | | |
| Peter Neligan . . | 15 00 | | |
| John S. Pollard . . | 5 00 | | |
| Albert A. Spencer . | 5 00 | | |
| | | 25 00 | |
| *Amounts carried forward* . . | | $6,732 08 | $7,418 17 |

| | | |
|---|---|---|
| *Amounts brought forward* . . | $6,732 08 | $7,418 17 |
| Services of Veterinary Surgeon, Dr. Wm. Ferguson . . . | 350 00 | |
| Sundries . . . . . | 12 68 | |
| Typewriter and cabinet for Mayor's Office, The Smith Premier Typewriter Co. . . . . | 117 60 | |
| Total . . . . . | | 7,212 36 |
| Balance unexpended . . . | | $205 81 |

**Inspection of Milk and Vinegar.**

| | | |
|---|---|---|
| Appropriation . . . . . | | $1,000 00 |
| Revenue . . . . . | | 148 50 |
| | | $1,148 5 |

RECEIVED.

| | | |
|---|---|---|
| For Milk and Butterine Licenses . | $148 50 | |

EXPENDED.

| | | | |
|---|---|---|---|
| For salaries of Inspector: | | | |
| Dr. F. A. Dunbar . | $600 00 | | |
| Deputy Inspector: | | | |
| John F. Wheeler . | 200 00 | | |
| | | 800 00 | |
| Car tickets, W. E. StreetRailway Co. | | 20 00 | |
| Expressage, Savage & Son . . | | 35 | |
| Samples, John F. Wheeler . . | | 71 57 | |
| Stamp, Allen Bros. . . . . | | 3 00 | |
| Stationery, printing: | | | |
| Jas. H. Cox . . | $21 50 | | |
| Harvard Printing Co. . | 4 95 | | |
| Stationery Dept. . . | 12 23 | | |
| | | 38 68 | |
| Sundries, F. A. Dunbar . . . | | 15 30 | |
| Use of horse and buggy: | | | |
| Gilbert Davoren . . . . | | 51 00 | |
| Total . . . . . | | | $999 90 |
| Balance unexpended . . . | | | $148 60 |

## Inspection of Wires Department.

| | | |
|---|---|---|
| Appropriation | | $12,000 00 |
| Transferred from Police Department | $575 00 | |
| Transferred from surplus revenue | 199 18 | |
| | | 774 18 |
| | | $12,774 18 |

RECEIVED.

| | |
|---|---|
| For changing wires: | $22 50 |
| Labor | 89 20 |
| Copper and zinc | 79 98 |
| Key Boxes | 1 50 |
| Tapper | 6 00 |
| | $199 18 |

EXPENDED.

| | | |
|---|---|---|
| For salaries of: | | |
| Inspector: | | |
| Chas. H. Morse | $916 62 | |
| Assistants: | | |
| Geo. J. Blaisdell | 1,204 20 | |
| David J. Campbell | 555 89 | |
| Arthur W. Daniels | 1,001 45 | |
| Wm. C. Pierce | 891 25 | |
| Sundry persons, as per pay rolls | 2,334 02 | |
| | | 6,903 43 |
| Apparatus and electrical supplies: | | |
| Boston Woven Hose Co. | $90 31 | |
| J. H. Bunnell & Co. | 89 20 | |
| Chas. L. Bly | 390 00 | |
| Eastern Electric Supply Co. | 80 24 | |
| Gethin's Electric Mfg. Co. | 70 00 | |
| Municipal Fire & Police Tel. Co. | 85 00 | |
| N. E. Gamewell Co. | 231 35 | |
| *Amounts carried forward* | $1,036 10 | $6,903 43 $12,774 18 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* | $1,036 10 | $6,903 43 | $12,774 18 |
| Apparatus and electrical supplies : | | | |
| Pettingell, Andrews & Co . . . . | 885 08 | | |
| A. L. Russell . . | 54 85 | | |
| Geo. M. Stevens . . | 310 09 | | |
| Poore, Towne & Co. . | 196 35 | | |
| Simplex Electric Co. . | 96 01 | | |
| Wright Elec. Eng. Co. | 65 45 | | |
| Washburn & Moen Mfg. Co. . . . | 221 99 | | |
| Sundry persons . . | 128 45 | | |
| | | 2,994 37 | |
| Badge, Jos. E. Bower . . | | 75 | |
| Bedding, furniture, etc.: | | | |
| Phillips Bros. & Co. . | $55 00 | | |
| Paine Furniture Co. . | 34 00 | | |
| W. W. Pratt . . | 30 00 | | |
| Worcester Bros. . . | 16 87 | | |
| | | 135 87 | |
| Board of horse: | | | |
| Irving Blake . . | $1 50 | | |
| Gwynne & Co. . . | 169 17 | | |
| J. O. Whitten . . | 349 56 | | |
| | | 520 23 | |
| Carpenter work and lumber: | | | |
| Ira G. Hersey . . | $553 40 | | |
| W. H. Norris . . | 121 67 | | |
| H. A. Scranton . . | 1 35 | | |
| | | 676 42 | |
| Carriage hire: | | | |
| Colby Bros. . . | $156 50 | | |
| Gwynne & Co. . . | 3 00 | | |
| J. O. Whitten . . | 31 00 | | |
| | | 190 50 | |
| Car tickets, W. E. St. Railway Co. . | | 25 00 | |
| Clock, A. J. Applegate . . . | | 3 00 | |
| Cleaning Battery Room: | | | |
| Lucy Langford . . . | | 12 00 | |
| Crash, J. H. Corcoran & Co. . . | | 1 69 | |
| Extension bell, N. E. Tel. Co. . . | | 5 50 | |
| *Amounts carried forward* . . | | $11,468 76 | $12,774 18 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $11,468 76 | $12,774 18 |
| Expressage: | | | |
| American Express Co. | $1 05 | | |
| Hatch & Co. . . | 39 32 | | |
| Savage & Son . . | 6 60 | | |
| | | 46 97 | |
| Fittings: | | | |
| Geo. F. Dickson . . | $3 53 | | |
| Levi Hawkes & Co. . | 40 13 | | |
| | | 43 66 | |
| Hardware and supplies: | | | |
| Burditt & Bynner . | $217 86 | | |
| C. L. Bradlee . . | 1 00 | | |
| Brock Bros. . . | 4 71 | | |
| S. C. Higgins . . | 2 44 | | |
| J. M. Price & Son . | 1 67 | | |
| F. A. White . . | 8 45 | | |
| Geo. A. Wood . . | 55 | | |
| | | 236 68 | |
| Harness and repairs: | | | |
| John Hancock . . | 6 80 | | |
| G. A. Morse . . | 10 50 | | |
| J. O. Whitten . . | 13 60 | | |
| | | 30 90 | |
| Horse, W. H. Woodbury . . | | 150 00 | |
| Horse-shoeing: | | | |
| Wm. Balmer . . | $63 65 | | |
| J. O. Whitten . . | 11 60 | | |
| | | 75 25 | |
| Lighting, Cambridge Elec. Lt. Co. . | | 13 50 | |
| Refreshments, M. R. Jones . . | | 3 00 | |
| Repairing wagons and carriages: | | | |
| Geo. O. Rollins . . | $143 20 | | |
| Chas. Waugh & Co. . | 28 55 | | |
| | | 171 75 | |
| Sign Plates, Barbour, Stockwell & Co. | | 10 00 | |
| Stationery, printing: | | | |
| Jas. H. Cox . . | $4 25 | | |
| Cashman, Keating & Co. | 6 00 | | |
| Stationery account . | 6 64 | | |
| | | 16 89 | |
| *Amounts carried forward* . . | | $12,267 36 | $12,774 18 |

| | | |
|---|---|---|
| *Amounts brought forward* . . | $12,267 36 | $12,774 18 |
| Telephone, N. E. Tel. Co., rent and tolls . . . . . | 251 21 | |
| Washing bedding, Fannie E. Blaisdell | 30 01 | |
| Total . . . . . | | $12,548 58 |
| Balance unexpended . . | | $225 60 |

**Interest.**

| | | |
|---|---|---|
| Appropriation . . . . . | | $135,000 00 |
| Surplus revenue . . . . | | 3,342 35 |
| | | $138,342 35 |
| Transferred to Incidental Expenses . | | $2,500 00 |
| | | $135,842 35 |

RECEIVED.

| | | |
|---|---|---|
| For Accrued interest on bonds issued . . | $477 77 | |
| Deposit at First National Bank . . | 2,169 05 | |
| Interest on advance payment to the Trustees of the Water Works Sinking Fund | 825 00 | |
| Sewer Assessments . | 57 80 | |
| Taxes . . . . | 2,812 73 | |
| | | $6,342 35 |

EXPENDED.

| | |
|---|---|
| For interest on: | |
| Cemetery Fund . . . . | $981 12 |
| Contingent Loan . . . . | 8,000 00 |
| Daniel White Charity . . . | 300 00 |
| Dowse Institute Fund . . . | 600 00 |
| Funded Loan . . . . | 115,540 00 |
| Sanders Temperance Fund . . | 600 00 |
| Temporary Loan . . . . | 8,015 51 |
| Total . . . . . | $134,036 63 |
| Balance unexpended . . . | $1,805 72 |

## Law Department.

| | | |
|---|---|---|
| Appropriation . . . . . | | $3,000 00 |
| Revenue (error in bill) . . . | | 2 50 |
| Transferred from Incidental Expenses | | 41 87 |
| | | $3,044 37 |

EXPENDED.

| | | | |
|---|---|---|---|
| For salary of: | | | |
| City Solicitor, C. J. McIntire . | | $2,500 00 | |
| Cash for sundries, Chas. J. McIntire . | | 14 85 | |
| Directory, W. A. Greenough & Co. . | | 2 50 | |
| Examination of titles: | | | |
| Wm. V. Thompson . . . | | 50 00 | |
| Services of: | | | |
| Jas. B. Fitzpatrick . | $15 32 | | |
| John R. Fairbairn . | 10 82 | | |
| P. Allen Lindsey . | 50 15 | | |
| | | 76 29 | |
| Stationery . . . . . | | 18 20 | |
| Typewriting, Geo. B. French . . | | 280 03 | |
| Typewriter and stand: | | | |
| Smith Premier Typewriter Co. . | | 102 50 | |
| Total . . . . . | | | $3,044 37 |

## Lamp Department.

| | | |
|---|---|---|
| Appropriation . . . . . | | 65,000 00 |
| Revenue . . . . . | | 6 50 |
| | | $65,006 50 |

EXPENDED.

| | | | |
|---|---|---|---|
| For Salary of: | | | |
| Supt., Chas. H. Morse, | $828 31 | | |
| B. O. Danforth, | 155 00 | | |
| Lamplighters, as per pay rolls . . . | 4,241 62 | | |
| | | $5,224 93 | |
| Board of horse, Fire Department . | | 120 77 | |
| *Amounts carried forward* . . | | $5,345 70 | $65,006 50 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $5,345 70 | $65,006 |
| Carriage hire: | | | |
| J. Callahan . . | $7 00 | | |
| J. E. Fabyan . . | 22 50 | | |
| H. K. Parsons & Co. . | 7 00 | | |
| | | 36 50 | |
| Car tickets, W. E. St. Railway Co. | | 30 00 | |
| Chimneys, etc.: | | | |
| Jones, McDuffie & Stratton . . | | 145 80 | |
| Changing lamps, Cambridge Electric Light Co. . . . . | | 3 65 | |
| Directory, W. A. Greenough & Co. | | 2 50 | |
| Expressage . . . . . | | 80 | |
| Hardware, tools, etc.: | | | |
| Burditt & Bynner . | $5 00 | | |
| C. L. Bradlee . . | 75 | | |
| R. B. Prince . . | 1 50 | | |
| Greene & Co. . . | 8 63 | | |
| A. M. Robbins . . | 25 | | |
| F. A. White . . | 2 00 | | |
| | | 18 13 | |
| Harness and repairs, J. F. Nolan . | | 1 50 | |
| Horse-shoeing, Jas. Bolger . . | | 2 00 | |
| Labor, setting lamp-posts: | | | |
| Robert Foster . . | $10 00 | | |
| Wm. Hanrahan . . | 2 00 | | |
| G. W. Montgomery . | 10 00 | | |
| Louis Rock . . . | 1 00 | | |
| | | 23 00 | |
| Ladder, C. W. H. Moulton & Co. . | | 5 23 | |
| Lighting: | | | |
| Camb. Elec. Lt. Co., | | | |
| Arc . . . | $47,178 47 | | |
| Incandescent . . | 3,156 82 | | |
| Labor . . . . | 11 25 | | |
| Camb. Gas Lt. Co. . | 7,266 69 | | |
| Repairs . . . | 120 73 | | |
| | | 57,733 96 | |
| Maintenance of three lights on Grove St., Town of Belmont . . . | | 39 60 | |
| *Amounts carried forward* . . | | $63,388 37 | $65,006 50 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $63,388 37 | $65,006 50 |
| Matches, oil, etc.: | | | |
| J. A. Holmes & Co. . | $5 34 | | |
| Jas. H. Wyeth & Co. . | 2 49 | | |
| | | 7 83 | |
| Oil: | | | |
| Maverick Oil Co. . | $147 70 | | |
| Standard Oil Co. . | 56 79 | | |
| | | 204 49 | |
| Pung, Chas. Waugh & Co. . . | | 75 00 | |
| Repairs, Carpentry: | | | |
| Ivory P. Estes . . | $14 10 | | |
| W. H. Norris . . | 2 10 | | |
| | | 16 20 | |
| Repairs on Wagon: | | | |
| Chas. Waugh & Co. . . . | | 20 05 | |
| Rubber boots, Henry A. Wyeth . | | 4 50 | |
| Stamps, Cotton & Gould . . . | | 85 | |
| Stationery, printing: | | | |
| Jas. H. Cox . . . | $11 25 | | |
| Harvard Printing Co. . | 4 95 | | |
| Stationery and printing account . . . | 10 79 | | |
| | | 26 99 | |
| Supplies for repairs on Elec. Lights: | | | |
| F. M. Buffum . . | $1 25 | | |
| Gould & Watson Co. . | 1 75 | | |
| Holtzer-Cabot Electric Co. . . . . | 75 00 | | |
| Pettingell, Andrews & Co. . . . . | 4 15 | | |
| Jas. W. Queen & Co. . | 30 75 | | |
| Thomson-Houston Electric Co. . . . | 5 50 | | |
| | | 118 40 | |
| Total . . . . . | | | 63,862 68 |
| Balance unexpended . . . | | | $1,143 82 |

## Overseers of the Poor (Almshouse Department).

| | | | |
|---|---|---|---|
| Appropriation | | | $22,000 00 |
| RECEIVED. | | | |
| For Aid to Paupers | | $15 43 | |
| Barrels | | 31 81 | |
| Board of Inmates | | 969 21 | |
| Burials | | 6 15 | |
| Flour | | 5 00 | |
| Grease and Bones | | 99 24 | |
| Old materials | | 21 01 | |
| Rags | | 5 90 | |
| Revenue from Chair Shop | | 899 81 | |
| Turkeys | | 2 89 | |
| Weighing fees | | 60 | |
| From Commonwealth of Mass. | | | |
| For Burials | $8 15 | | |
| Sick Poor | 246 41 | | |
| Support of Foundling | 7 71 | | |
| | | 262 27 | |
| | | $2,319 32 | |
| EXPENDED. | | | |
| For salaries of: | | | |
| Supt., M. L. Eldridge | $1,500 00 | | |
| Asst. Supt., M. A. Warren, | 702 86 | | |
| Chaplain, F. W. Holland | 100 00 | | |
| School teacher, Alice H. Fawcett | 450 00 | | |
| Organist and music teacher, M. G. Hillman | 150 00 | | |
| Sundry house officials | 3,384 32 | | |
| | | $6,287 18 | |
| Advertising, Boston Herald Co. | | 4 88 | |
| Barge, West End Street Railway Co. | | 7 00 | |
| Brooms, brushes: | | | |
| Greenwood & Co. | $16 00 | | |
| Oscar F. Howe | 20 13 | | |
| | | 36 13 | |
| *Amounts carried forward* | | $6,335 19 | $22,000 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $6,335 19 | $22,000 00 |
| Burial fees: | | | |
| Cambridge Cemetery . . | $4 00 | | |
| H. D. Litchfield . . . | 62 05 | | |
| | | 66 05 | |
| Bricks and clay: | | | |
| D. W. Lewis . . . | $17 50 | | |
| Parry Bros. & Co. . . | 5 20 | | |
| | | 22 70 | |
| Cane for chair shop, Wakefield Rattan Co. . . . . | | 327 90 | |
| Car tickets, W. E. Street Railway Co. . | | 30 00 | |
| Cash expended for sundries: | | | |
| M. L. Eldridge . . . . . | | 306 21 | |
| Clothing, dry goods, boots, shoes, etc.: | | | |
| Brown, Durrell & Co. . | $342 72 | | |
| Dyer, Rice & Co. . . | 48 00 | | |
| Jordan, Marsh & Co. . | 1,041 64 | | |
| L. Morse & Co. . . . | 273 75 | | |
| Globe Shoe Co. . . . | 60 00 | | |
| Mass. Boot and Shoe Co. . | 63 90 | | |
| Smith, Whiting, Conner & Co. . . . . | 192 00 | | |
| H. Sleap & Co. . . . | 21 60 | | |
| Sundry persons . . . | 10 61 | | |
| C. D. Wilder . . . | 78 45 | | |
| | | 2,132 67 | |
| Dentistry, Dr. Albert J. Sawyer . . | | 9 00 | |
| Directory, W. A. Greenough . . . | | 2 50 | |
| Expressage, Bancroft's Express . . | | 32 05 | |
| Fancy goods, toys, etc.: | | | |
| B. H. Landman . . . | $9 95 | | |
| Horace Partridge & Co. . | 13 02 | | |
| | | 22 97 | |
| Fuel: | | | |
| L. G. Burnham & Co. . | $520 00 | | |
| H. G. Jordan & Co. . . | 191 65 | | |
| H. Wellington & Co. . . | 780 00 | | |
| Weighing, H. W. Brooks . | 12 50 | | |
| | | 1,504 15 | |
| *Amounts carried forward* . . | | $10,791 39 | $22,000 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $10,791 39 | $22,000 00 |
| Furniture and furnishings: | | | |
| Chas. W. Allen . . . | $9 00 | | |
| Milton Gage . . . | 19 60 | | |
| D. W. Gage . . . | 34 88 | | |
| Oscar F. Howe . . . | 25 89 | | |
| Geo. R. McFarlin . . | 81 46 | | |
| Sundry persons . . . | 6 50 | | |
| | | 177 33 | |
| Gas, Cambridge Gas Light Co. . . | | 276 88 | |
| Hardware, tools and supplies: | | | |
| Burditt & Bynner . . | $165 86 | | |
| Boston Furnace Co. . . | 1 30 | | |
| Magee Furnace Co. . . | 15 80 | | |
| Walker & Pratt Mfg. Co. . | 34 63 | | |
| F. A. White . . . | 55 94 | | |
| | | 273 53 | |
| Harness repairs, F. Ivers & Son . . | | 3 85 | |
| House repairs: | | | |
| Carpentry: | | | |
| A. L. Teele . . . | $115 13 | | |
| W. H. Norris . . . | 187 00 | | |
| Plumbing: | | | |
| W. Kneeland . . . | 1 00 | | |
| John H. Stevens & Co. . | 46 19 | | |
| Whitewashing and repairing, A. F. Stackelborg . | 209 93 | | |
| | | 559 25 | |
| Hay and grain, Clark Bros. . . . | | 358 90 | |
| Heating apparatus, Walworth Mfg. Co. . | | 52 79 | |
| Hot Water Heater, Charles River Iron Works . . . . . | | 110 00 | |
| Horse-shoeing, J. B. Rufer . . . | | 10 75 | |
| Ice, H. D. & W. S. Durgin . . . | | 122 00 | |
| Lumber, lime, cement: | | | |
| John S. Clary . . . | $23 64 | | |
| Geo. W. Gale Lumber Co. . | 28 96 | | |
| J. Sewell & Co. . . . | 75 42 | | |
| Wm. H. Wood & Co. . | 16 20 | | |
| | | 144 22 | |
| *Amounts carried forward* . . | | $12,880 89 | $22,000 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $12,880 89 | $22,000 00 |
| Medicines, drugs, etc.: | | | |
| Gilman Bros. | $300 09 | | |
| Chas. S. Lombard | 9 84 | | |
| W. C. Smith | 1 35 | | |
| | | 311 28 | |
| Medical instruments and apparatus: | | | |
| Codman & Shurtleff | $8 38 | | |
| Henry Lannergan | 15 00 | | |
| | | 23 38 | |
| Newspapers, Jas. W. Hunnewell | | 24 00 | |
| Opening grave, C. W. Burke | | 4 00 | |
| Oil, W. A. Wood & Co. | | 14 97 | |
| Packing, C. S. Knowles | | 87 | |
| Pipe and fittings, Walworth Mfg. Co. | | 29 17 | |
| Plants, Wm. A. Bock | | 3 50 | |
| Repairing boots and shoes, Wm. Meyer | | 103 10 | |
| School supplies, School Department | | 8 97 | |
| Sewing machine, White Sewing Machine Co. | | 35 00 | |
| Soap, Frank H. Teele | | 180 00 | |
| Stamp, L. W. Poole | | 1 25 | |
| Stationery, printing: | | | |
| F. W. Barry, Beale & Co. | $26 80 | | |
| Cotton & Gould | 14 00 | | |
| | | 40 80 | |
| Stable fittings: | | | |
| Broad Gauge Iron Works | | 11 40 | |
| Subsistence supplies: | | | |
| Boyd, Leeds & Co. | $589 01 | | |
| Cambridge Baking Co. | 10 52 | | |
| Geo. H. Chessman & Co. | 25 75 | | |
| Cobb, Bates & Yerxa | 219 27 | | |
| Geo. Close | 17 10 | | |
| Cheney, Upham & Co. | 14 00 | | |
| Clark Bros. | 59 28 | | |
| John Cummings | 50 50 | | |
| Chas. L. Davenport | 18 75 | | |
| David Ellis & Co. | 767 54 | | |
| Gilmore & Co. | 12 00 | | |
| *Amounts carried forward* | $1,783 72 | $13,672 58 | $22,000 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $1,783 72 | $13,672 58 | $22,000 00 |
| Subsistence supplies : | | | |
| A. J. Harrington . . | 14 75 | | |
| E. E. Harrington . . | 97 90 | | |
| F. M. Holmes . . . | 35 20 | | |
| M. R. Jones . . . | 18 35 | | |
| Chas. Kimball & Co. . . | 269 36 | | |
| F. A. Kennedy Co. . . | 17 52 | | |
| A. J. Littlefield & Co. . | 777 14 | | |
| A. J. Lovell & Co. . . | 104 83 | | |
| Isaac Locke & Co. . . | 4 50 | | |
| McPherson Bros. . . | 570 68 | | |
| Walter Nash . . . | 1,937 61 | | |
| Fred D. Norton . . . | 462 74 | | |
| N. Y. Biscuit Co. . . | 90 98 | | |
| Geo. G. Parker . . . | 32 53 | | |
| Geo. E. Richardson & Co. . | 36 03 | | |
| Sands, Page & Taylor . | 477 30 | | |
| S. S. Sleeper & Co. . . | 252 23 | | |
| Swan, Newton & Co. . . | 30 43 | | |
| Wm. Sanderson . . . | 60 20 | | |
| L. A. Treat . . . | 187 56 | | |
| Utley & Boynton . . | 214 83 | | |
| S. P. Worthley . . . | 553 50 | | |
| | | 8,029 89 | |
| Telephone rent and tolls, N. E. Tel Co. . | | 66 00 | |
| Valve and reseating outfit, Leavitt Machine Co. . . . . | | 77 40 | |
| Wagon repairs, Jas. A. Henderson & Co. | | 34 10 | |
| Windows, Cutter & Parker . . . | | 6 50 | |
| Wire netting, Morss & Whyte . . | | 7 90 | |
| Wood, Chas. A. Raymond . . . | | 31 06 | |
| Total . . . . . | | | $21,925 43 |
| Balance unexpended . . . | | | $74 57 |

## Overseers of the Poor (Farm and Ledge).

| | | |
|---|---|---|
| Appropriation . . . . . | | $8,000 00 |

RECEIVED.

| | |
|---|---|
| For farm produce . . | $5,371 60 |
| Stone . . . . | 5,220 56 |
| | $10,592 16 |

*Farm Department.*

EXPENDED.

| | | | |
|---|---|---|---|
| For Labor on Farm: | | | |
| Farmer, James Welch . | $786 07 | | |
| Employés, as per pay rolls | 1,899 65 | | |
| | | $2,685 | 72 |
| Barbed Wire, Morss & Whyte . . | | 1 | 80 |
| Cart, Abel Fitch . . . . . | | 50 | 00 |
| Cows, Jeremiah Sullivan . . . | | 55 | 00 |
| Carpentry, A. L. Teele . . . . | | 107 | 73 |
| Glass, Lambert Bros. . . . . | | 4 | 50 |
| Goddard buggy, Richard Tyner & Co. . | | 285 | 00 |
| Hay: | | | |
| P. Hurley . . . | $51 75 | | |
| Timothy O'Keefe . . | 21 93 | | |
| | | 73 | 68 |
| Hose and rubber goods, C. S. Knowles . | | 30 | 17 |
| Hot-bed sashes, Cutter & Parker . . | | 87 | 50 |
| Lumber, Geo. W. Gale Lumber Co. . | | 170 | 97 |
| Manure: | | | |
| D. Barry . . . . | $16 00 | | |
| P. Cahill . . . . | 15 63 | | |
| T. A. Callaghan . . . | 31 38 | | |
| T. F. Crimmings. . . | 29 93 | | |
| D. Donnelly . . . | 10 50 | | |
| James Hennessey . . | 7 03 | | |
| Timothy Keefe . . . | 118 62 | | |
| M. F. Lamb . . . | 6 56 | | |
| Mrs. John McCarthy . . | 4 00 | | |
| M. Murphy . . . | 28 71 | | |
| Thomas O'Hara. . . | 24 00 | | |
| *Amounts carried forward* | $292 36 | $3,552 | 07 |
| | | $8,000 | 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . | $292 36 | $3,552 07 | $8,000 00 |
| Manure: | | | |
| M. O'Neil . . . . | 155 21 | | |
| John Quin . . . . | 80 74 | | |
| J. M. Riley . . . | 66 73 | | |
| J. F. White . . . | 36 21 | | |
| J. McCrehan . . . | 46 66 | | |
| | | 677 91 | |
| Mowing, Ludwig Reiger . . . | | 30 00 | |
| Pigs: | | | |
| Geo. McManus . . . | $33 00 | | |
| John P. Taylor . . . | 155 00 | | |
| | | 188 00 | |
| Plants, Seeds: | | | |
| Wm. A. Bock . . . | $12 65 | | |
| Otis A. Brown & Co. . . | 2 95 | | |
| E. E. Harrington . . | 12 25 | | |
| Parker & Wood . . . | 90 | | |
| Schleigel & Fottler . . | 114 22 | | |
| | | 142 97 | |
| Pullets: | | | |
| M. Murphy . . . . | $13 05 | | |
| Wm. Wheeler . . . . | 6 00 | | |
| | | 19 05 | |
| Rent of Market stand, Mercantile Wharf Corporation . . . . . | | 40 00 | |
| Stamp, L. W. Poole . . . . | | 1 25 | |
| Tools, Parker & Wood . . . . | | 13 28 | |
| Wagon, Jas. A. Henderson . . . | | 200 00 | |
| Wooden Ware, Oscar F. Howe . . | | 6 46 | |
| | | $4,870 99 | |

*Ledge Department.*

| | | | |
|---|---|---|---|
| Labor on ledge: | | | |
| Foreman, Michael Callahan | $786 07 | | |
| Employés, as per pay rolls . | 1,546 58 | | |
| | | $2,332 65 | |
| Lumber, J. Sewell & Co. . . . | | 17 44 | |
| Powder and fuse, Geo. H. Sampson . | | 277 31 | |
| Repairing scales, The Fairbanks Co. . | | 58 63 | |
| *Amounts carried forward* . . | | $2,686 03 | $8,000 00 |

| | | |
|---|---|---|
| *Amounts brought forward* . . | $2,686 03 | $8,000 00 |
| Repairing tools, Edw. Fitzgerald . . | 138 50 | |
| Scale-books, F. W. Barry, Beale & Co. . | 3 00 | |
| Tools, Dodge, Haley & Co. . . . | 23 38 | |
| Weighing stone, Cambridge Stone Co. . | 9 00 | |
| | $2,859 91 | |
| Total expenditures on | | |
| Farm . . . . . | $4,870 99 | |
| Ledge . . . . . | 2,859 91 | |
| | | $7,730 90 |
| Balance unexpended . . . | | $269 10 |

**Overseers of the Poor (House Offal).**

| | | |
|---|---|---|
| Appropriation . . . . . | | $19,500 00 |
| Revenue, surplus . . . . . | | 35 57 |
| Transferred from Incidental Expenses . | | 2,840 86 |
| | | $22,376 43 |

RECEIVED.

| | | |
|---|---|---|
| For sale of House Offal . . . | $7,535 57 | |

EXPENDED.

| | | | |
|---|---|---|---|
| For labor, as per pay rolls . . . | | 17,083 50 | |
| Carpentry, A. L. Teele . . . . | | 105 19 | |
| Disinfectant, C. W. Lerned & Co. . . | | 40 01 | |
| Drugs, Henry Thayer & Co. . . . | | 5 57 | |
| Harness and repairs: | | | |
| L. Barrieaux . . . | $98 77 | | |
| F. Ivers & Son . . . | 14 15 | | |
| Wm. Mitchell . . . | 117 50 | | |
| | | 230 42 | |
| Hay and grain: | | | |
| Clark Bros. . . . | $2,349 73 | | |
| McPherson Bros. . . | 236 57 | | |
| Powers & Co. . . . | 196 96 | | |
| Chas. Woodman . . . | 18 15 | | |
| Geo. G. Wright . . . | 235 00 | | |
| | | 3,036 41 | |
| *Amounts carried forward* | | $20,501 10 | $22,376 43 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $20,501 10 | $22,376 43 |
| Horses: | | | |
| Joseph Spaulding | $100 00 | | |
| Welch & Hall | 185 00 | | |
| | | 285 00 | |
| Horse-shoeing: | | | |
| J. W. Gerry | $32 28 | | |
| Wm. Bell | 345 05 | | |
| J. B. Rufer | 10 15 | | |
| | | 387 48 | |
| Lumber: | | | |
| J. Sewell & Co. | $55 53 | | |
| John S. Clary | 356 95 | | |
| | | 412 48 | |
| Offal Wagons, James Miller | | 301 50 | |
| Pipe, D. W. Lewis | | 17 00 | |
| Repairs on wagon, R. S. Easter & Son | | 361 89 | |
| Soap, grease, oil: | | | |
| Alden Speare's Sons & Co. | | 45 21 | |
| Stationery and printing, Jas. H. Cox | | 28 00 | |
| Stamp, L. W. Poole | | 1 25 | |
| Supplies, hardware: | | | |
| Burditt & Bynner | $30 07 | | |
| Dodge, Haley & Co. | 5 45 | | |
| | | 35 52 | |
| Total | | | $22,376 43 |

**Overseers of the Poor (Outside Aid).**

| | | |
|---|---|---|
| Appropriation | | $35,000 00 |
| Surplus revenue | | 743 97 |
| | | $35,743 97 |

RECEIVED.

| | | |
|---|---|---|
| For aid to board and burial of paupers: | | |
| By cities, towns and individuals | $2,502 02 | |
| Commonwealth of Massachusetts | 1,238 95 | |
| Transportation | 3 00 | |
| | $3,743 97 | |
| *Amount carried forward* | | $35,743 97 |

| | | |
|---|---|---|
| *Amount brought forward* . . . . . | | $35,743 97 |
| EXPENDED. | | |
| For salaries of: | | |
| Secretary, D. P. Muzzey . $1,500 00 | | |
| Visitor, V. Danforth . . 1,500 00 | | |
| Clerk, Addie M. Benson . 525 00 | | |
| | $3,525 00 | |
| Ambulance fees, C. W. Dailey . . | 85 00 | |
| Aid to sundry persons . . . . | 1,209 12 | |
| Binding: | | |
| E. W. Bettinson . . $8 00 | | |
| J. H. H. McNamee . . 38 25 | | |
| | 46 25 | |
| Board and care of sundry persons . . | 3,504 24 | |
| Board and care at | | |
| Boston Children's Aid Society . . . . $417 50 | | |
| Cambridge Hospital . . 355 00 | | |
| Carney Hospital . . 407 76 | | |
| Danvers Lunatic Hospital . 1,996 83 | | |
| Essex Co. Truant School . 117 08 | | |
| Hospital Cottage for Children . . . . 132 00 | | |
| House of Correction . . 148 28 | | |
| Mass. School for the Feeble-Minded . . . . 1,373 93 | | |
| Northampton Lunatic Hospital . . . . 169 92 | | |
| Taunton Lunatic Hospital . 141 78 | | |
| Westboro Insane Hospital . 2,013 19 | | |
| Worcester Insane Asylum 3,481 71 | | |
| Worcester Lunatic Hospital 6,082 70 | | |
| By Commonwealth of Mass. at | | |
| State Almshouse . . 487 37 | | |
| State Farm . . . 742 40 | | |
| School for Feeble-Minded . 130 00 | | |
| Taunton Lunatic Hospital . 37 61 | | |
| Worcester Lunatic Hospital 769 92 | | |
| Westboro Insane Hospital . 164 36 | | |
| | 19,169 34 | |
| *Amounts carried forward* | $27,538 95 | $35,743 97 |

| | | | |
|---|---|---|---|
| *Amounts brought forward.* . . | | $27,538 95 | $35,743 97 |
| Burial fees, Cambridge Cemetery . . | | 127 00 | |
| Burials, H. D. Litchfield . . . | | 168 25 | |
| Book Case, T. H. Luther . . . | | 40 99 | |
| Car tickets, W. E. Street Railway Co. . | | 200 00 | |
| Canvas Cot, J. A. Hedin & Co. . . | | 1 50 | |
| Cash expended for sundries: | | | |
| V. Danforth . . . | $64 42 | | |
| D. P. Muzzey . . . | 30 85 | | |
| | | 95 27 | |
| Carpentry, T. H. Luther . . . | | 14 60 | |
| Cleaning Carpets, W. A. Freeman . . | | 3 58 | |
| Clothing, dry goods, shoes, etc.: | | | |
| E. T. Fogg . . . | $12 00 | | |
| Jordan, Marsh & Co. . . | 77 91 | | |
| P. H. Moriarty . . . | 4 50 | | |
| Chas. D. Wilder . . | 58 15 | | |
| The Wardrobe . . . | 10 05 | | |
| . . | | 162 61 | |
| Coal baskets, Benjamin Treen & Co. . | | 9 50 | |
| Directories: | | | |
| H. A. Buell & Co. . . | $3 00 | | |
| W. A. Greenough & Co. . | 7 00 | | |
| Sampson, Murdock & Co. . | 26 00 | | |
| | | 36 00 | |
| Fuel: | | | |
| L. G. Burnham & Co. . | $520 00 | | |
| Coleman Bros. . . . | 242 87 | | |
| H. G. Jordan & Co. . . | 299 00 | | |
| H. Wellington & Co. . . | 260 00 | | |
| Weighing coal, H. W. Brooks . . . . | 10 00 | | |
| | | 1,331 87 | |
| Gas, Cambridge Gas Lt. Co. . . . | | 139 28 | |
| Hardware, tools, Dodge, Haley & Co. . | | 1 10 | |
| Horse, Dr. Charles L. Johnson . . | | 60 00 | |
| Hose, Geo. F. Dickson . . . . | | 3 25 | |
| Ice, Cambridge Ice Co. . . . . | | 7 00 | |
| *Amounts carried forward* | | $29,940 75 | $35,743 97 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . | | $29,940 75 | $35,743 97 |
| Medicines, drugs, etc.: . . | | | |
| A. R. Bailey . . . | $21 56 | | |
| Otis Clapp & Son . . | 21 90 | | |
| Chas. E. Coombs . . | 16 60 | | |
| Gilman Bros. . . . | 111 86 | | |
| G. F. Harvey Co. . . | 8 40 | | |
| Chas. S. Lombard . . | 1 44 | | |
| Albert E. Lynch . . | 9 37 | | |
| P. J. Noyes Mfg. Co. . . | 85 | | |
| Gilbert C. Olive . . . | 35 10 | | |
| L. W. Reycroft . . . | 31 85 | | |
| W. C. Smith . . . | 8 61 | | |
| Reeves Bros. . . . | 9 41 | | |
| S. H. Talbot . . . | 3 60 | | |
| | | 280 55 | |
| Medical Instruments and apparatus: | | | |
| Codman & Shurtleff . . | $5 00 | | |
| C. H. Goldthwaite & Co. . | 3 00 | | |
| W. C. Smith . . . | 10 90 | | |
| Chas. E. Vaughan . . | 4 50 | | |
| F. A. White . . . | 1 60 | | |
| | | 25 00 | |
| Numbering machine, L. W. Poole . | | 18 00 | |
| Nurses: | | | |
| Mrs. Celia Adams . . | $6 00 | | |
| Mary E. Boyle . . . | 5 00 | | |
| | | 11 00 | |
| Office chair, Mellish, Byfield & Co. . | | 28 00 | |
| Paper bags, Wm. H. Claflin . . . | | 17 34 | |
| Professional services: | | | |
| Dr. Chas. L. Johnson . . | $10 00 | | |
| Dr. A. L. Norris . . | 10 00 | | |
| Dr. Jas. D. Thompson . | 23 00 | | |
| | | 43 00 | |
| Relief by Cities and Towns: | | | |
| City of Boston . . . | $924 18 | | |
| Chelsea . . . | 35 89 | | |
| Haverhill . . | 3 51 | | |
| Lynn . . . | 219 00 | | |
| *Amounts carried forward* | $1,182 58 | $30,363 64 | $35,743 97 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $1,182 58 | $30,363 64 | $35,743 97 |
| Relief by Cities and Towns: | | | |
| City of Newburyport | 21 00 | | |
| Newton | 12 00 | | |
| Somerville | 119 80 | | |
| Taunton | 15 72 | | |
| Waltham | 4 85 | | |
| Worcester | 10 50 | | |
| Town of Andover | 16 81 | | |
| Arlington | 8 63 | | |
| Bridgewater | 40 00 | | |
| Medford | 115 20 | | |
| Methuen | 141 91 | | |
| Reading | 6 50 | | |
| Stoughton | 28 42 | | |
| | | 1,723 92 | |
| Stamp, L. W. Poole | | 1 25 | |
| Stationery, printing, postage: | | | |
| F. W. Barry, Beale & Co. | $143 60 | | |
| Cotton & Gould | 33 25 | | |
| James H. Cox | 2 00 | | |
| Harvard Printing Co. | 57 39 | | |
| John Ford & Son | 110 00 | | |
| W. H. Wheeler | 18 00 | | |
| | | 364 24 | |
| Subsistence supplies: | | | |
| Boyd, Leeds & Co. | $16 72 | | |
| Cobb, Bates & Yerxa | 374 30 | | |
| Clark Bros. | 193 71 | | |
| D. H. Dean | 83 66 | | |
| Wm. H. Dodge | 43 75 | | |
| J. A. Holmes & Co. | 496 60 | | |
| H. N. Hovey & Co. | 240 00 | | |
| McPherson Bros. | 746 52 | | |
| | | 2,195 26 | |
| Signs, Clifford Hunting | | 5 50 | |
| Storage, J. L. Bailey | | 5 50 | |
| Telephone rent and tolls, N. E. Tel. Co. | | 119 20 | |
| Typewriting supplies and repairs: | | | |
| Hammond Typewriter Co. | | 2 50 | |
| *Amounts carried forward* | | $34,781 01 | $35,743 97 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $34,781 01 | $35,743 97 |
| Virus points, N. E. Vaccine Co. | | 67 | |
| Washing: | | | |
| Mrs. Mary Corcoran | $3 00 | | |
| Mrs. Catherine Fox | 2 00 | | |
| | | 5 00 | |
| Wagon repairs, James A. Henderson & Co. | | 51 45 | |
| Total | | | 34,838 13 |
| Balance unexpended | | | $905 84 |

**Overseers of the Poor (Salary of Assistant City Physician).**

| | |
|---|---|
| Appropriation | $1,500 00 |
| EXPENDED. | |
| For Salary of Asst. City Physician: | |
| Dr. L. L. Bryant | $1,500 00 |

**Police Department.**

| | | |
|---|---|---|
| Appropriation | | $104,500 00 |
| Transferred from Incidental Expenses, for Police Signal in District One | | 4,000 00 |
| | | $108,500 00 |
| Transferred to Inspection of Wires for Wiring for Police Signal in Dist. One | | 575 00 |
| | | $107,925 00 |
| RECEIVED. | | |
| For Cloth for Uniforms | $758 55 | |
| Fees | 2 70 | |
| Fines, etc. | 4,573 75 | |
| Old materials | 1 00 | |
| | $5,336 00 | |
| EXPENDED. | | |
| For salaries of | | |
| Chief, L. J. Cloyes | $1,769 10 | |
| Captain, M. J. Folsom | 1,248 00 | |
| T. H. Lucy | 1,248 00 | |
| *Amounts carried forward* | $4,265 10 | $107,925 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $4,265 10 | | $107,925 00 |
| For salaries of | | | |
| Captain J. F. Murray | 1,248 00 | | |
| Inspector, L. J. Ducey | 1,248 00 | | |
| Inspector, A. S. Harriman | 1,189 50 | | |
| Court Officer: | | | |
| W. F. Batchelder | 1,189 50 | | |
| Sergeants | 7,968 00 | | |
| Patrolmen | 77,535 62 | | |
| Matrons | 710 00 | | |
| Drivers | 2,697 84 | | |
| | | $98,051 56 | |
| Ambulance fee, C. W. Dailey | | 2 00 | |
| Badges, A. W. Mitchell Mfg. Co. | | 24 50 | |
| Bandages, Gilman Bros. | | 1 95 | |
| Bindings, E. W. Bettinson | | 4 00 | |
| Buttons, D. Evans & Co. | | 50 00 | |
| Carpentry: | | | |
| Wm. P. Hanscom | $0 60 | | |
| John Quin | 5 80 | | |
| | | 6 40 | |
| Carriage hire: | | | |
| Chas. W. Dailey | $12 50 | | |
| Gwynne & Co. | 3 00 | | |
| J. O. Whitten | 5 00 | | |
| | | 20 50 | |
| Car tickets, West End St. Railway Co. | | 160 00 | |
| Cash expended for sundries: | | | |
| L. J. Cloyes | $51 86 | | |
| L. J. Ducey | 115 90 | | |
| M. J. Folsom | 21 75 | | |
| A. S. Harriman | 24 75 | | |
| T. H. Lucy | 50 25 | | |
| John F. Murray | 32 17 | | |
| | | 296 68 | |
| Cleaning stations: | | | |
| Anna Freeman | $120 00 | | |
| Ann Murphy | 176 50 | | |
| | | 296 50 | |
| *Amounts carried forward* | | $98,914 09 | $107,925 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $98,914 09 | $107,925 00 |
| Cleaning carpets: | | | |
| W. A. Freeman . . | $12 60 | | |
| Geo. F. Ricker . . | 2 16 | | |
| | | 14 76 | |
| Cloth for uniforms, Wendell, Fay & Co. | | 640 62 | |
| Clubs, Wm. F. Chester . . . | | 10 00 | |
| Crackers, Wm. Wright . . . | | 1 50 | |
| Directories: | | | |
| W. A. Greenough & Co. | $12 50 | | |
| Sampson, Murdock & Co. | 5 00 | | |
| | | 17 50 | |
| Dressing horses' teeth, C. H. Williams | | 2 00 | |
| Expressage and moving furniture: | | | |
| P. Biggen . . . | $2 00 | | |
| Hatch & Co. . . . | 1 45 | | |
| Savage & Son . . | 4 55 | | |
| | | 8 00 | |
| Fuel, Wellington & Buck . . . | | 44 14 | |
| Furniture, bedding, furnishings: | | | |
| J. H. Corcoran & Co. . | $3 60 | | |
| D. W. Hyde & Co. . | 2 40 | | |
| Phillips Bros. & Co. . | 19 25 | | |
| Worcester Bros. . . | 22 17 | | |
| | | 47 42 | |
| Firearms and repairs, Wm. Read & Sons | | 41 73 | |
| Hardware, tools, supplies: | | | |
| Burditt & Bynner . . | $32 06 | | |
| Brock Bros. . . . | 44 72 | | |
| S. C. Higgins . . . | 40 | | |
| J. M. Price & Son . . | 31 18 | | |
| Jas. H. Wyeth & Co. . | 44 | | |
| | | 108 80 | |
| Harness, wagons and repairs: | | | |
| Chas. S. Berry . . | $7 75 | | |
| L. C. Chase & Co. . . | 10 07 | | |
| Owen Doherty . . | 12 50 | | |
| John Hancock . . | 60 | | |
| A. H. Morse . . | 1 90 | | |
| Chas. Waugh & Co. . | 265 38 | | |
| | | 298 20 | |
| *Amounts carried forward* . . | | $100,148 76 | $107,925 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $100,148 76 | $107,925 00 |
| Hay, grain, straw: | | | |
| J. S. Bradeen . . . | $118 38 | | |
| A. G. Dore & Co. . . | 164 83 | | |
| | | 283 21 | |
| Horses: | | | |
| L. H. Brockway . . | $200 00 | | |
| Chas. H. & Edgar Snow . | 117 20 | | |
| | | 317 20 | |
| Horse hire: | | | |
| E. E. Gould . . . | $15 00 | | |
| J. O. Whitten . . | 3 00 | | |
| | | 18 00 | |
| Horse board: | | | |
| Irving Blake . . . | $4 00 | | |
| C. W. Dailey . . . | 265 00 | | |
| J. O. Whitten . . | 300 00 | | |
| | | 569 00 | |
| Horse-clipping, John Smith . . | | 6 00 | |
| Horse-shoeing: | | | |
| Wm. Balmer . . . | $33 70 | | |
| T. Burke . . . | 7 00 | | |
| Wm. F. Garrett & Co. . | 14 00 | | |
| James Moley . . . | 6 75 | | |
| Thomas Smith . . | 26 00 | | |
| | | 87 45 | |
| Ice: | | | |
| Boston Ice Co. . . | $6 90 | | |
| Fresh Pond Ice Co. . | 26 07 | | |
| | | 32 97 | |
| Lamps and shade, Camb. Elec. Lt. Co. . | | 8 00 | |
| Lighting: | | | |
| Gas, Cambridge Gas Light Co. . . . | $1,142 52 | | |
| Electric, Cambridge Electric Light Co. . . | 81 88 | | |
| | | 1,224 40 | |
| Lumber, W. H. Norris . . . | | 3 30 | |
| Meals for prisoners, P. J. Gillen . . | | 1 80 | |
| *Amounts carried forward* . . | | $102,700 09 | $107,925 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $102,700 09 | $107,925 00 |
| Medicines and medical supplies: | | | |
| A. R. Bailey | $5 55 | | |
| L. W. Reycroft | 4 35 | | |
| W. C. Smith | 2 40 | | |
| J. O. Whitten | 1 00 | | |
| | | 13 30 | |
| Police signal repairs and supplies: | | | |
| F. M. Buffum | $3 00 | | |
| Inspection of Wires Department | 40 60 | | |
| N. E. Gamewell Co. | 41 29 | | |
| Municipal Signal Co. | 7 50 | | |
| Wright Electric Co. | 25 00 | | |
| | | 117 39 | |
| Painting, Chas. McMinimen | | 10 00 | |
| Professional services: | | | |
| Dr. A. P. Clarke | $2 00 | | |
| Dr. W. H. Clancy | 7 00 | | |
| Dr. W. B. Fiske | 3 00 | | |
| Dr. W. H. Tyler | 3 00 | | |
| | | 15 00 | |
| Photographs: | | | |
| Geo. D. Ford | $13 00 | | |
| Whitney & Son | 6 00 | | |
| | | 19 00 | |
| Rent and water rates (barn): | | | |
| E. W. Reed | | 385 00 | |
| Regalia, Mrs. J. G. Marshall | | 24 00 | |
| Strapping Clubs: | | | |
| John Hancock | $0 60 | | |
| A. H. Morse | 40 | | |
| H. A. Winship | 15 60 | | |
| | | 16 60 | |
| Stable outfit, N. E. Gamewell Co. | | 295 00 | |
| Stationery and printing: | | | |
| Cambridgeport Diary Co. | $6 00 | | |
| Cotton & Gould | 35 35 | | |
| Jas. H. Cox | 18 75 | | |
| Harvard Printing Co. | 72 55 | | |
| *Amounts carried forward* | $132 65 | $103,595 38 | $107,925 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $132 65 | $103,595 38 | $107,925 00 |
| Stationery and printing: | | | |
| G. W. Ring . . . | 10 00 | | |
| Winkley, Dresser & Co. . | 77 10 | | |
| Stationery Department . | 33 90 | | |
| | | 253 65 | |
| Sundries: | | | |
| D. W. Hyde & Co. . | $1 50 | | |
| M. R. Jouett . . . | 5 23 | | |
| J. C. Moor . . . | 8 15 | | |
| Chas. Munroe . . | 4 10 | | |
| Jas. H. Wyeth & Co. . | 2 45 | | |
| Yerxa & Yerxa . . | 19 71 | | |
| | | 41 14 | |
| Telephone rents and tolls, N. E. Tel. Co. | | 645 33 | |
| Washing towels, Chas. Munroe . . | | 5 50 | |
| Whips, William Darling . . . | | 6 24 | |
| Total . . . . . | | | 104,547 24 |
| Balance unexpended . . . | | | $3,377 76 |

**Public Property (City Buildings, Care and Repairs).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $21,000 00 |
| Surplus revenue . . . . . | | | 15 74 |
| Transferred from Incidental Expenses | | | 105 49 |
| | | | $21,121 23 |
| RECEIVED. | | | |
| For rents: | | | |
| Armories . . . . | $800 00 | | |
| Hall . . . . . | 5 00 | | |
| Tenements . . . | 104 99 | | |
| Water Works, Office, etc. | 2,000 00 | | |
| | | $2,909 99 | |
| Sundries . . . . . | | 5 75 | |
| | | $2,915 74 | |
| *Amount carried forward* . . . | | | $21,121 23 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . . | | | $21,121 23 |

**Public Property (City Hall, Care and Repairs).**

| | | | |
|---|---|---|---|
| Salaries of | | | |
| Janitor, Chas. A. Gay . | $1,210 12 | | |
| Assistants: | | | |
| James McVay . . | 525 00 | | |
| Nellie Carey . . . | 420 00 | | |
| Josie Cronin . . . | 420 00 | | |
| Sundry persons . . | 265 40 | | |
| Elevator boy, Wm. E. Brown . . . . | 338 25 | | |
| Engineer, Edward B. Dale | 1,050 00 | | |
| Asst. engineer, Geo. Buzell | 90 00 | | |
| Fireman, James Saunders | 276 00 | | |
| Watchman, Jos. Hazlett . | 735 00 | | |
| | | $5,329 77 | |
| Cleaning carpets, Geo. F. Ricker . . | | 1 05 | |
| One-half cost of fence in rear of City Hall, F. C. Stratton . . . . | | 70 00 | |
| Expressage, Savage & Son . . . | | 1 00 | |
| Electrical Supplies and Apparatus: | | | |
| Germania Electric Co. . | $95 15 | | |
| A. L. Russell . . . | 3 25 | | |
| Wright Elec. Eng. Co. . | 17 65 | | |
| | | 116 05 | |
| Engine supplies and repairs: | | | |
| John H. Carter . . | $6 60 | | |
| S. C. Higgins . . . | 21 10 | | |
| J. E. Haynes . . . | 9 00 | | |
| Wm. Fitzgerald . . | 128 92 | | |
| Ellis Lubricator Co. . . | 4 50 | | |
| W. A. Morrison . . | 103 40 | | |
| Roberts Iron Works Co. . | 7 20 | | |
| L. R. Wattles & Co. . | 3 00 | | |
| J. A. Worthen . . | 1 25 | | |
| | | 284 97 | |
| Fuel: | | | |
| L. G. Burnham & Co. . | $416 65 | | |
| P. F. Gayton & Co. . . | 4 80 | | |
| *Amounts carried forward* . | $421 45 | $5,802 84 | $21,121 23 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $421 45 | $5,802 84 | $21,121 23 |
| Fuel: | | | |
| H. G. Jordan & Co. | 537 50 | | |
| Wellington & Buck | 240 00 | | |
| H. Wellington & Co. | 237 00 | | |
| Weighing coal: | | | |
| H. W. Brooks | 6 25 | | |
| | | 1,442 20 | |
| Furniture and furnishings: | | | |
| F. M. Eaton | $9 20 | | |
| James Furfey | 20 99 | | |
| Joel Goldthwaite | 21 75 | | |
| Keeler & Co. | 32 00 | | |
| Paine's Furniture Co. | 97 75 | | |
| Phillips Bros. & Co. | 31 00 | | |
| F. P. Snyder | 65 00 | | |
| H. A. Scranton | 22 75 | | |
| F. B. Wentworth | 48 90 | | |
| | | 349 34 | |
| Gilding letters over entrance to City Hall, | | | |
| Carl A. Loges & Son | | 40 00 | |
| Hardware, tools and supplies: | | | |
| Burditt & Bynner | $31 05 | | |
| C. L. Bradlee | 8 25 | | |
| Cotton & Gould | 12 00 | | |
| L. W. Ferdinand & Co. | 18 72 | | |
| F. A. White | 1 87 | | |
| J. R. Worthen | 75 | | |
| | | 72 64 | |
| Hose, Boston Woven Hose & Rubber Co. | | 6 00 | |
| Ice, Fresh Pond Ice Co. | | 62 39 | |
| Labor, Wm. Hazlett | | 14 00 | |
| Lighting: | | | |
| Camb. Elec. Lt. Co. | $770 00 | | |
| Camb. Gas Lt. Co. | 196 83 | | |
| | | 966 83 | |
| Lighting apparatus: | | | |
| Camb. Elec. Lt. Co. | $73 25 | | |
| Inspection of Wires Dept. | 11 10 | | |
| N. W. Turner Co. | 43 83 | | |
| | | 128 18 | |
| *Amounts carried forward* | | $8,884 42 | $21,121 23 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $8,884 42 | $21,121 23 |
| Repairs and alterations:— | | | |
| Carpentry: | | | |
| W. H. Norris | $187 03 | | |
| W. W. Pratt | 1 50 | | |
| Clock, John Gill | 3 50 | | |
| Elevator repairs, Whittier Machine Co. | 11 46 | | |
| Heating apparatus: | | | |
| S. C. Higgins | 10 42 | | |
| Ingalls & Kendrickson | 116 52 | | |
| Masonry: | | | |
| W. J. Heron | 1 25 | | |
| Wm. Hillier & Son | 63 75 | | |
| Painting, glazing, lettering, oiling: | | | |
| J. L. P. Ackers | 112 42 | | |
| C. F. Davis | 5 00 | | |
| Clifford Hunting | 3 35 | | |
| J. H. and J. P. Thayer & Co. | 121 95 | | |
| Plumbing: | | | |
| Levi Hawkes & Co. | 97 30 | | |
| S. C. Higgins | 5 50 | | |
| | — | 740 95 | |
| Shades and fixtures: | | | |
| John H. Kelsey | 1 50 | | |
| W. W. Pratt | 13 32 | | |
| | | 14 82 | |
| Soap, Mark A. Torrey & Co. | | 9 00 | |
| Sundry supplies: | | | |
| D. H. Dean | $7 50 | | |
| Harlow & Glidden | 1 40 | | |
| Dana W. Hyde & Co. | 25 49 | | |
| S. A. Howard & Co. | 4 50 | | |
| J. A. Holmes & Co. | 90 | | |
| Chas. E. Holske | 5 00 | | |
| India Alkali Works | 8 19 | | |
| Carlos L. Page & Co. | 67 | | |
| | | 53 65 | |
| *Amounts carried forward* | | $9,702 84 | $21,121 23 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $9,702 84 | $21,121 23 |
| Washing towels, Nellie M. Carey | | 53 13 | |
| Wire Screens, W. W. Pratt | | 149 00 | |
| Wire guards, Morss & Whyte | | 36 50 | |
| Total for City Hall | | $9,941 47 | |

*Ward One Building.*

| | | | |
|---|---|---|---|
| Salary of Janitor, Chas. Munroe | | $1,346 31 | |
| Alterations and repairs :- – | | | |
| Carpentry : | | | |
| I. P. Estes | $76 08 | | |
| W. H. Norris | 213 34 | | |
| John Quin | 39 15 | | |
| M. F. Tracy & Son | 2 40 | | |
| Mason Work : | | | |
| John Fowler | 215 32 | | |
| Painting, glazing and whitening : | | | |
| W. B. Holt | 405 90 | | |
| Chas. A. Sawyer | 151 00 | | |
| Plumbing : | | | |
| A. Baumiester | 337 90 | | |
| Brock Bros. | 2 30 | | |
| Roof repairs : | | | |
| J. J. Blevins | 14 20 | | |
| Rep. boiler, Charles River Iron Works | 68 67 | | |
| Rep. clock, Geo. M. Stevens | 5 48 | | |
| Rep. gate, Morss & Whyte | 5 50 | | |
| | | 1,537 24 | |
| Furniture and furnishings : | | | |
| J. Goldthwaite & Co. | $310 22 | | |
| C. B. Moller | 47 18 | | |
| Paine's Furniture Co. | 29 45 | | |
| Phillips Bros. | 60 75 | | |
| Heywood Bros. | 54 84 | | |
| Worcester Bros. | 62 00 | | |
| | | 564 44 | |
| *Amounts carried forward* | | $3,447 99 | $9,941 47 $21,121 23 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $3,447 99 | $9,941 47 | $21,121 23 |
| Fuel: | | | |
| L. G. Burnham & Co. $36 05 | | | |
| P. F. Gayton & Co. 5 40 | | | |
| H. G. Jordan & Co. 382 79 | | | |
| Wellington & Buck 168 00 | | | |
| H. Wellington & Co. 165 90 | | | |
| Weighing: | | | |
| H. W. Brooks . 3 85 | | | |
| | 761 99 | | |
| Gas-piping, John P. Adams . | 20 58 | | |
| Heating apparatus: | | | |
| S. C. Higgins . . $13 92 | | | |
| Charles River Iron Works. . . 15 66 | | | |
| | 29 58 | | |
| Hardware, Brock Bros. . . | 3 20 | | |
| Lighting: | | | |
| Camb. Elec. Lt. Co. $120 00 | | | |
| Camb. Gas Lt. Co. . 692 63 | | | |
| | 812 63 | | |
| Lumber: | | | |
| N. N. Stickney . $6 78 | | | |
| J. Sewell & Co. . 9 81 | | | |
| | 16 59 | | |
| Steam fittings, Chas. K. Hooker | 175 83 | | |
| Sundry supplies, Chas. Munroe . | 37 08 | | |
| Wire guards, Morss & Whyte . | 150 00 | | |
| Total for Ward One Building | | 5,455 47 | |
| *Ward Two Building.* | | | |
| Alterations and repairs: — | | | |
| Carpentry: | | | |
| W. H. Norris . $23 05 | | | |
| M. F. Tracy & Son 9 85 | | | |
| | $32 90 | | |
| Heating apparatus: | | | |
| Moynahan & Co. . . . | 12 80 | | |
| Iron Work: | | | |
| Fulton Iron Foundry . . | 4 50 | | |
| *Amounts carried forward* . | $50 20 | $15,396 94 | $21,121 23 |

| | | | | | | |
|---|---|---|---|---|---|---|
| *Amounts brought forward* | | | $50 20 | $15,396 94 | $21,121 23 |
| Mason Work, Bellamy & Harris | | | 39 55 | | |
| Painting: | | | | | |
| Chas. A. Sawyer & Co. | $150 45 | | | | |
| J. H. & J. P. Thayer & Co. | 9 70 | | | | |
| | | | 160 15 | | |
| Plumbing, D. J. Keefe & Co. | | | 50 00 | | |
| Gas, Cambridge Gas Light Co. | | | 141 76 | | |
| Total for Ward Two Building | | | | 441 66 | |
| *Ward Three Building.* | | | | | |
| Alterations and repairs | | | $0 90 | | |
| Building fence, C. L. Weldon | | | 46 00 | | |
| Care of fires, L. H. Dale | | | 40 00 | | |
| Drain pipe, L. B. Guyer | | | 4 87 | | |
| Gas Fittings, M. F. Davlin & Co. | | | 5 50 | | |
| Mats, James Furfey | | | 4 40 | | |
| Hardware, J. M. Price & Co. | | | 4 75 | | |
| Janitor, John J. McCarthy | | | 50 00 | | |
| Lighting: | | | | | |
| Camb. Elec. Lt. Co. | $4 00 | | | | |
| " Gas " " | 47 61 | | 51 61 | | |
| Plumbing, M. F. Davlin & Co. | | | 11 13 | | |
| Total for Ward Three Bldg. | | | | 219 16 | |
| *Ward Four Building.* | | | | | |
| Salary of Janitor, Geo. D. Brown | | $1,261 16 | | | |
| Alterations and repairs: — | | | | | |
| Carpentry: | | | | | |
| M. F. Tracy & Son | $4 85 | | | | |
| W. H. Norris | 182 85 | | | | |
| Drain work: | | | | | |
| John McDonald & Son | 7 00 | | | | |
| Painting: | | | | | |
| J. L. P. Ackers | 72 50 | | | | |
| E. Tripp & Co. | 93 89 | | | | |
| *Am'ts carried forward* | $361 09 | $1,261 16 | $16,057 76 | $21,121 23 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* | $361 09 | $1,261 16 | $16,057 76 $21,121 23 |
| Alterations and repairs: — | | | |
| Plumbing: | | | |
| S. C. Higgins . | $21 91 | | |
| Levi Hawkes & Co. | 4 67 | | |
| Geo. V. Eldridge . | 3 00 | | |
| Paper Hanging: | | | |
| J. H. & J. P. Thayer & Co. . | 7 34 | | |
| Plastering and whitening: | | | |
| J. W. Crocker . | 5 25 | | |
| Wm. J. Heron . | 74 75 | | |
| Repairing roof: | | | |
| John J. Blevins . | 135 89 | | |
| | — —— | 613 90 | |
| Fuel: | | | |
| L. G. Burnham & Co. | $10 30 | | |
| Horatio Wellington & Co. . . . | 468 00 | | |
| Weighing coal: | | | |
| H. W. Brooks . | 4 50 | | |
| | ——— | 482 80 | |
| Electric Lt. work, insp. of wires | | 18 00 | |
| Furniture and furnishings: | | | |
| Burditt & Bynner . | $8 10 | | |
| James Furfey . . | 3 30 | | |
| John H. Kelsey . | 7 50 | | |
| Geo. S. Perry & Co. | 215 12 | | |
| Phillips Bros. & Co. | 12 00 | | |
| Worcester Bros. . | 33 75 | | |
| | ——— | 279 77 | |
| Gas fittings, N. W. Turner Co. . | | 22 35 | |
| Hardware, Burditt & Bynner . | | 15 89 | |
| Heating apparatus: | | | |
| S. C. Higgins . . . | | 42 19 | |
| Lighting, Camb. Gas Lt. Co. . | | 223 92 | |
| Sand trap, Geo. V. Eldridge . | | 3 00 | |
| Soap, Curtis Davis & Co. . . | | 4 50 | |
| *Amounts carried forward* | | $2,967 48 | $16,057 76 $21,121 23 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $2,967 48 | $16,057 76 | $21,121 23 |
| Sundry supplies: | | | |
| H. N. Hovey & Co. . . | 84 | | |
| Switch: | | | |
| Holtzer-Cabot Electric Co. . | 6 67 | | |
| Washing walls, Benj. F. Warren | 10 75 | | |
| Total for Ward Four Building | | 2,985 74 | |
| *Ward Five Building.* | | | |
| Alterations and repairs:— | | | |
| Air valve, J. E. Ricker . . . | $3 00 | | |
| Carpentry: | | | |
| Geo. F. Durgin . | 17 38 | | |
| I. P. Estes . . | 8 19 | | |
| F. B. Furbush . | 5 41 | | |
| O. B. French . | 2 83 | | |
| W. H. Norris . | 211 67 | | |
| C. L. Weldon . | 350 00 | | |
| Repairing leak: | | | |
| N. W. Turner Co. | 4 20 | | |
| Repairing roof: | | | |
| David Young . | 41 00 | | |
| Whitewashing: | | | |
| G. Mullen . . | 5 00 | | |
| | 648 68 | | |
| Care of Ward room, J.E.Ricker | 50 00 | | |
| Hose couplings, Boston Woven Hose & Rubber Co. . . | 1 70 | | |
| Lighting, Camb. Gas Lt. Co. . | 19 49 | | |
| Lumber, J. Sewell & Co. . . | 10 40 | | |
| Total for Ward Five Building | | 730 27 | |
| *Engine House No. 2.* | | | |
| Alterations and repairs:— | | | |
| Carpentry: | | | |
| W. H. Norris . | $18 11 | | |
| Plumbing: | | | |
| A. Baumeister . | 35 50 | | |
| Henry T. Moulton | 4 16 | | |
| *Am'ts carried forward* | $57 77 | $19,773 77 | $21,121 23 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* $57 77 | | $19,773 77 | $21,121 23 |
| Alterations and repairs: — | | | |
| Painting and white-washing: | | | |
| Chas. A. Sawyer . 140 00 | | | |
| Repairing roof: | | | |
| John J. Blevins . 55 45 | | | |
| | 253 22 | | |
| Cleaning carpets, Geo. F. Ricker | 7 33 | | |
| Furniture and furnishings: | | | |
| C. B. Moller . . $56 31 | | | |
| J. M. Oxford & Co. . 13 30 | | | |
| W. W. Pratt . . 17 60 | | | |
| Phillips Bros. & Co. . 14 00 | | | |
| | 101 21 | | |
| Heating apparatus, S. C. Higgins | 14 22 | | |
| Lumber, Geo. W. Gale Lumber Co. | 9 36 | | |
| Total for Engine House No. 2 | | 385 34 | |
| *Engine House No. 6.* | | | |
| Alterations and repairs: — | | | |
| Carpentry: | | | |
| W. H. Norris . $137 97 | | | |
| M.F.Tracy & Son 3 30 | | | |
| | 141 27 | | |
| Glazing, J.H.& J.P. Thayer & Co. | 1 75 | | |
| Heating apparatus, S. G. Higgins | 17 34 | | |
| Iron work: | | | |
| Charles River Iron Works . . $20 11 | | | |
| Geo. McIntosh . 1 25 | | | |
| Parker, Field & Mitchell . . 2 92 | | | |
| | 24 28 | | |
| Lumber, Geo. W. Gale Lumber Co. . . . . | 1 35 | | |
| Plumbing, S. C. Higgins . . | 6 82 | | |
| Signs, Carl A. Loges & Sons . | 15 00 | | |
| Varnishing, etc., Chas. A. Sawyer . . . . . | 68 00 | | |
| Total for Engine House No. 6 | | 275 81 | |
| *Amounts carried forward* . | | $20,434 92 | $21,121 23 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $20,434 92 | $21,121 23 |
| *Hook and Ladder Building on Portland Street.* | | | |
| Alterations and repairs: | | | |
| Carpentry, John Quin | $65 15 | | |
| Mason work, McGahy & Byrne | 29 96 | | |
| Painting, Chas. A. Sawyer | 183 00 | | |
| Plumbing, M. F. Davlin & Co. | 4 13 | | |
| Iron work, Charles River Iron Works | 26 29 | | |
| Lumber, M. E. Rideout | 2 05 | | |
| Total for Hook and Ladder Building | | 310 58 | |
| *Bath House.* | | | |
| Salary of Superintendent: | | | |
| Jas. C. Matthews | $325 00 | | |
| Carpentry, W. H. Norris | 14 96 | | |
| Labor and supplies, F. Clover | 8 75 | | |
| Total for Bath House | | 348 71 | |
| *Old City Hall.* | | | |
| Carpentry, W. H. Norris | | 2 02 | |
| Inspection Boilers, Edw. Kendall & Sons | | 25 00 | |
| Total | | | $21,121 23 |

**Public Property (School Houses, Care and Repairs).**

| | | |
|---|---|---|
| Appropriation | | $44,000 00 |
| Revenue | | 14 74 |
| Transferred from Incidental Expenses | | 4,114 65 |
| | | $48,129 39 |

RECEIVED.

| | | |
|---|---|---|
| For cost of setting glass in Latin School, | $14 74 | |

EXPENDED.

| | | |
|---|---|---|
| For Salaries of Janitors | $18,948 32 | |
| Baskets, Cotton & Gould | 28 50 | |
| Battery bells, etc., Wm. F. Chester | 16 25 | |
| *Amounts carried forward* | $18,993 07 | $48,129 39 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $18,993 07 | $48,129 39 |
| Blackboards: | | | |
| J. L. Hammett | $15 00 | | |
| J. A. Swasey | 100 00 | | |
| | | 115 00 | |
| Carpentry: | | | |
| J. E. Dennison | $59 48 | | |
| I. P. Estes | 281 52 | | |
| W. H. Norris | 2,264 45 | | |
| John Quin | 624 20 | | |
| M. F. Tracy & Son | 19 00 | | |
| Wm. H. White | 46 22 | | |
| | | 3,294 87 | |
| Clocks and repairs: | | | |
| A. J. Applegate | $42 50 | | |
| Simon Flaig | 6 00 | | |
| Miller Bros. | 12 50 | | |
| Sundry persons | 9 25 | | |
| | | 70 25 | |
| Connecting clock, Inspection of Wires acct. | | 85 00 | |
| Disinfectants: | | | |
| Boston Germicide Co. | $45 90 | | |
| C. W. Lerned & Co. | 107 84 | | |
| | | 153 74 | |
| Drain work, Samuel McCulloch | | 75 16 | |
| Dusters, brushes, etc.: | | | |
| Chas. A. Austin & Co. | $210 59 | | |
| A. Worcester & Son | 84 10 | | |
| Sundry persons | 15 00 | | |
| | | 309 69 | |
| Fuel: | | | |
| L. G. Burnham & Co. | $3,531 90 | | |
| Coleman Bros. | 68 00 | | |
| P. F. Gayton & Co. | 151 50 | | |
| H. G. Jordan & Co. | 4,792 39 | | |
| Richardson & Bacon | 10 00 | | |
| H. Wellington & Co. | 3,410 54 | | |
| Wellington & Buck | 216 00 | | |
| | | 12,180 33 | |
| Weighing coal, H. W. Brooks | | 99 12 | |
| *Amounts carried forward* | | $35,376 23 | $48,129 39 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $35,376 23 | $48,129 39 |
| Furniture and furnishings: | | | |
| James Furfey . . . | $250 12 | | |
| Heywood Bros. & Co. . . | 74 00 | | |
| John H. Kelsey . . . | 101 90 | | |
| Paine's Furniture Co. . . | 108 78 | | |
| Geo. S. Perry & Co. . . | 707 15 | | |
| Phillips Bros. & Co. . . | 206 25 | | |
| W. W. Pratt . . . . | 78 35 | | |
| T. B. Wentworth . . . | 61 58 | | |
| Worcester Bros. . . . | 41 57 | | |
| Sundry persons . . . | 44 48 | | |
| | | 1,674 18 | |
| Hardware, tools and supplies: | | | |
| C. L. Bradlee . . . . | $10 85 | | |
| Brock Bros. . . . . | 64 17 | | |
| Burditt & Bynner . . . | 56 90 | | |
| Moynahan & Co. . . . | 53 34 | | |
| J. M. Price & Son . . . | 166 34 | | |
| F. A. White . . . | 55 04 | | |
| Sundry persons . . . | 13 93 | | |
| | | 420 57 | |
| Heating and ventilating: | | | |
| Geo. F. Blake Mfg. Co. . . | $11 65 | | |
| Brock Bros. . . . . | 360 12 | | |
| D. W. Gage . . . . | 79 16 | | |
| S. C. Higgins . . . . | 1,220 56 | | |
| Moynahan & Co. . . . | 147 22 | | |
| D. J. Wild & Co. . . . | 110 05 | | |
| | | 1,928 76 | |
| Inspecting and repairing boilers: | | | |
| Charles River Iron Works . . . | | 45 01 | |
| Labor, Donahue Bros. . . . . | | 14 50 | |
| Lamps, Cambridge Electric Light Co. . | | 6 50 | |
| Latches and Hooks, Wm. Hall & Co. . . | | 16 13 | |
| Laying artificial stone walk: | | | |
| W. A. Murtfeldt . . . . . | | 60 00 | |
| Lighting: | | | |
| Cambridge Electric Light Co. . | $971 27 | | |
| Cambridge Gas Light Co. . | 811 36 | | |
| | | 1,782 63 | |
| *Amounts carried forward* . . | | $41,324 51 | $48,129 39 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . | | $41,324 51 | $48,129 39 |
| Mason work: | | | |
| Bellamy & Harris . . . | $12 75 | | |
| Wm. E. Bucknam . . . | 15 25 | | |
| A. Chapin . . . . | 15 89 | | |
| J. W. Crocker . . . | 18 70 | | |
| Thos. Harrison . . . | 25 04 | | |
| Clarence G. Reed . . . | 4 00 | | |
| | ——— | 91 63 | |
| Moving furniture and expressage: | | | |
| J. R. and C. S. Hersum . . | $133 03 | | |
| Sundry persons . . . | 16 50 | | |
| | ——— | 149 53 | |
| Painting, glazing, whitening: | | | |
| J. L. P. Ackers . . . | $595 42 | | |
| J. D. Ford . . . . | 58 00 | | |
| Wm. Gallagher . . . | 330 00 | | |
| Wm. Holden . . . . | 40 80 | | |
| W. B. Holt . . . . | 295 17 | | |
| Richard Payne . . . | 25 00 | | |
| Chas. A. Sawyer . . . | 792 13 | | |
| J. H. & J. P. Thayer & Co. . | 175 94 | | |
| Sundry persons . . . | 34 36 | | |
| | ——— | 2,346 82 | |
| Plans and specifications, C. H. McClare . | | 15 00 | |
| Plumbing: | | | |
| A. Baumeister . . . | $27 65 | | |
| Brock Bros. . . . . | 350 12 | | |
| M. F. Davlin & Co. . . . | 52 05 | | |
| Geo. V. Eldridge . . . | 16 80 | | |
| Levi Hawkes & Co. . . | 64 41 | | |
| Moynahan & Co. . . . | 47 90 | | |
| Sundry persons . . . | 17 95 | | |
| | ——— | 576 88 | |
| Printing, Jas. H. Cox . . . . . | | 5 00 | |
| Removing night soil: | | | |
| R. M. Johnson . . . | $8 00 | | |
| W. B. Mullen . . . | 197 65 | | |
| | ——— | 205 65 | |
| *Amounts carried forward* . . | | $44,715 02 | $48,129 39 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . | | $44,715 02 | $48,129 39 |
| Repairing and setting flagstaffs: | | | |
| David Cass . . . . | $77 67 | | |
| Dennis F. Driscoll . . . | 5 00 | | |
| H. Pigeon & Sons . . . | 57 25 | | |
| | ——— | 139 92 | |
| Repairing furniture: | | | |
| F. M. Eaton . . . . | $12 20 | | |
| T. B. Wentworth . . . | 11 35 | | |
| Sundry persons . . . | 14 50 | | |
| | ——— | 38 05 | |
| Repairing roofs: | | | |
| John J. Blevins . . . | $280 18 | | |
| M. F. Marks . . . . | 34 90 | | |
| David Young . . . . | 10 49 | | |
| | ——— | 325 57 | |
| Sanitary work: | | | |
| Brock Bros. . . . . | $2,022 50 | | |
| H. L. Rose . . . . | 107 50 | | |
| | ——— | 2,130 00 | |
| Steam, gas and electric fittings: | | | |
| M. F. Davlin & Co. . . | $22 05 | | |
| Geo. F. Dickson . . . | 36 96 | | |
| N. W. Turner Co. . . . | 97 78 | | |
| Sundry persons . . . | 23 69 | | |
| | ——— | 180 48 | |
| Shavings, C. W. H. Moulton & Co. . . | | 6 20 | |
| Sidewalks, Street Department . . . | | 77 12 | |
| Soap . . . . . | | 17 81 | |
| Sundry repairs: | | | |
| F. M. Buffum . . . | $19 75 | | |
| F. Clover . . . . | 16 23 | | |
| T. J. Denton . . . . | 13 00 | | |
| T. F. McCue . . . . | 29 45 | | |
| J. A. Swasey . . . . | 12 60 | | |
| Wm. H. White . . . | 71 60 | | |
| Sundry persons . . . | 13 00 | | |
| | ——— | 175 63 | |
| Sundry supplies: | | | |
| Wm. H. Bates . . . | $5 10 | | |
| J. B. Higgins . . . | 5 99 | | |
| | ——— | ——— | ——— |
| *Amounts carried forward* . . | $11 09 | $47,805 80 | $48,129 39 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . | $11 09 | $47,805 80 | $48,129 39 |
| Sundry supplies: | | | |
| D. W. Hyde & Co. . . | 11 25 | | |
| Sundry persons . . . | 13 34 | | |
| | | 35 68 | |
| Telephone line, Chas. L. Bly . . . | | 44 85 | |
| Wire guards, Morss & Whyte . . . | | 39 26 | |
| Wiring for electric lights and electric supplies, Wright Electric Eng. Co. . | | 203 80 | |
| Total . . . . . | | | $48,129 39 |

**Public Property (New Engine House in Ward Three).**

| | | |
|---|---|---|
| Appropriation . . . . . | | $20,000 00 |
| Additional Appropriation . . . . | | 2,200 00 |
| Revenue . . . . . | | 720 00 |
| Transferred from Incidental Expenses . . | | 695 00 |
| | | $23,615 00 |

RECEIVED.

| | | |
|---|---|---|
| For building corner of Otis and Third Sts. | $720 00 | |

EXPENDED.

| | | | |
|---|---|---|---|
| For Advertising: | | | |
| Boston Herald Co. . . | $18 60 | | |
| James Cox . . . . | 2 07 | | |
| | | 20 67 | |
| Contract for Building: | | | |
| The Leach & Grant Co. . . . . | | 6,000 00 | |
| Cleaning Vaults, W. B. Mullen . . . | | 5 90 | |
| Examination of Titles, Wm. V. Thompson . | | 45 00 | |
| Land and buildings: | | | |
| Frederick H. Rindge et. al. | $3,000 00 | | |
| Catherine T. Reagan et. al. . | 4,200 00 | | |
| | | 7,200 00 | |
| Plumbing, M. F. Davlin & Co. . . . | | 3 46 | |
| Posting notices, J. A. McLane . . . | | 2 50 | |
| Running wires, Inspection of Wires Dept. . | | 60 00 | |
| Water supply, Camb. Water Works . . | | 28 91 | |
| Total . . . . . | | | 13,366 44 |
| Balance unexpended . . . . | | | $10,248 56 |

**Public Property (New High School House).**

| | | | |
|---|---|---|---|
| Appropriation | | | $63,043 66 |
| Transferred from Incidental Expenses | | | 2,500 00 |
| | | | $65,543 66 |

EXPENDED.

| | | | |
|---|---|---|---|
| For architect's services: | | | |
| Chamberlain & Austin | $897 01 | | |
| C. Herbert McClare | 103 00 | | |
| | | $1,000 01 | |
| Artificial walks, W. A. Murtfeldt | | 1,717 70 | |
| Ash barrels, A. M. Robbins | | 104 00 | |
| Banner, C. F. Davis | | 17 00 | |
| Bases for Vestibules, Chelmsford Foundry Co. | | 250 00 | |
| Blackboard stands, J. L. Hammett | | 42 00 | |
| Brass rail, Scrannage Bros. | | 30 00 | |
| Carpentry, W. H. Norris | | 1,083 17 | |
| Cash expended for sundries, F. A. Hill | | 39 13 | |
| Castings, Wm. Fitzgerald | | 174 85 | |
| Cementing ash pit, W. A. Murtfeldt | | 10 00 | |
| Cleansing vaults, W. B. Mullen | | 5 90 | |
| Clocks, Nelson H. Brown | | 196 00 | |
| Connecting meter, Camb. Gas Lt. Co. | | 41 93 | |
| Contracts: | | | |
| Building, J. E. Giddings & Son | 42,516 75 | | |
| Fitting up laboratories: | | | |
| Briggs Bros. | 5,100 00 | | |
| | | 47,616 75 | |
| Damper regulator, W. A. Morrison | | 137 25 | |
| Edgestones, Street Dept. | | 63 95 | |
| Electric and gas fixtures, N. W. Turner Co. | | 1,098 54 | |
| Electrical work, inspection of wires | | 30 00 | |
| Fence, Geo. T. McLauthlin | | 285 00 | |
| Filling, John Gallivan | | 78 75 | |
| Furniture and furnishings: | | | |
| Briggs Bros. | $18 00 | | |
| Conant Bros. and Bragg Co. | 37 40 | | |
| James Furfey | 77 25 | | |
| *Amounts carried forward* | $132 65 | $54,021 93 | $65,543 66 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . | $132 65 | $54,021 93 | $65,543 66 |
| Furniture and furnishings: | | | |
| Joel Goldthwaite & Co. . . | 138 83 | | |
| Harwood Mfg. Co. . . . | 1,027 50 | | |
| Heywood Bros. & Co. . . | 964 91 | | |
| C. F. Hovey . . . . | 5 08 | | |
| Library Bureau . . . | 37 89 | | |
| Paine's Furniture Co. . . | 61 50 | | |
| Geo. S. Perry & Co. . . | 30 04 | | |
| Pond Desk Co. . . . | 619 40 | | |
| Phillips Bros. & Co. . . | 130 00 | | |
| W. W. Pratt . . . . | 35 00 | | |
| Frank P. Snyder . . . | 430 30 | | |
| John H. Pray, Sons & Co. . | 287 99 | | |
| Wakefield Rattan Co. . . | 8 00 | | |
| Winchester Furniture Co. . | 2,291 04 | | |
| | | 6,200 13 | |
| Grading and driveway, Street Department . | | 803 51 | |
| Grass seeds, R. & J. Farquhar & Co. . . | | 15 25 | |
| Heating apparatus: | | | |
| Ingalls & Kendricken . . | $1,190 00 | | |
| Sundry persons . . . | 6 09 | | |
| | | 1,196 09 | |
| Inkstands, Winkley, Dresser & Co. . . | | 6 66 | |
| Inspector of Works, Chas. H. Stuart . . | | 30 00 | |
| Ladders and steps, C. W. H. Moulton & Co. | | 70 40 | |
| Labor, sundry persons . . . . | | 13 00 | |
| Lamps, etc., N. W. Turner Co. . . . | | 299 05 | |
| Lettering, Clifford Hunting . . . | | 23 40 | |
| Lighting, Cambridge Electric Light Co. . | | 13 14 | |
| Loam: | | | |
| Peter Burns . . . . | $154 10 | | |
| James Culhane . . . | 29 45 | | |
| John Doody . . . . | 84 15 | | |
| John Horrigan . . . | 68 20 | | |
| Frank Lerner . . . . | 41 85 | | |
| M. O'Sullivan . . . . | 60 00 | | |
| Jeremiah Sullivan . . . | 110 40 | | |
| Peter Tumilty . . . | 80 00 | | |
| | | 628 15 | |
| *Amounts carried forward* . . | | $63,320 71 | $65,543 66 |

| | | | | |
|---|---|---|---|---|
| *Amounts brought forward* . . | | | $63,320 71 | $65,543 66 |
| Magnesia covering for steam pipes: | | | | |
| Nightingale & Childs . . . . | | | 275 00 | |
| Moving furniture, J. R. & C. S. Hersum . | | | 83 02 | |
| Number plates, A. W. Mitchell Mfg. Co. . | | | 50 00 | |
| Putting in electric lights, Seth W. Fuller . | | | 311 92 | |
| Retaining wall, R. R. Mayers & Co. . . | | | 950 00 | |
| Sand, Jeremiah Sullivan . . . . | | | 48 40 | |
| Shield, W. H. Norris . . . . . | | | 5 90 | |
| Shellacking, John C. Sheafe . . . | | | 19 05 | |
| Sods, Jeremiah Sullivan . . . . | | | 7 65 | |
| Sundry supplies: | | | | |
| C. E. Bramhall . . . | $19 51 | | | |
| Brock Bros. . . . . | 5 04 | | | |
| Cotton & Gould . . . | 37 50 | | | |
| Sundry persons . . . | 23 80 | | | |
| | | | 85 85 | |
| Sundry repairs . . . . . | | | 7 75 | |
| Teaming: | | | | |
| John Gallivan . . . . | $65 00 | | | |
| Peter Tumilty . . . . | 55 00 | | | |
| | | | 120 00 | |
| Thermometers, Dame, Stoddard & Kendall, | | | 20 73 | |
| Tools, Ames Plow Co. . . . . | | | 18 13 | |
| Varnishing, W. B. Holt . . . . | | | 18 00 | |
| Work on frames, John C. Sheafe . . | | | 16 00 | |
| Total . . . . . | | | | $65,358 11 |
| Balance unexpended . . . . | | | | $185 55 |

**Public Property (Old High School House).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $15,000 00 |
| Transferred from Incidental Expenses . | | | 1,500 00 |
| | | | $16,500 00 |
| EXPENDED. | | | |
| For architect's services, C. H. McClare . | | $385 00 | |
| Blackboards, J. A. Swasey . . . . | | 250 00 | |
| *Amounts carried forward* . . . | | $635 00 | $16,500 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . . | | $635 00 | $16,500 00 |
| Contracts: | | | |
| Carpentry, John Quin . | $8,127 00 | | |
| Heating and ventilating: | | | |
| S. C. Higgins . . . | 5,105 00 | | |
| Plumbing, Geo. V. Eldridge . | 2,123 00 | | |
| | | 15,355 00 | |
| Conductor pipe, Geo. V. Eldridge . . | | 95 00 | |
| Fence, John Quin . . . . . | | 148 50 | |
| Gas fittings, N. W. Turner Co. . . . | | 71 24 | |
| Hooks, Wm. Hall & Co. . . . . | | 4 50 | |
| Iron work, James Maitland . . . . | | 2 40 | |
| Mason work, McGahey & Byrne . . . | | 63 00 | |
| Shades, Worcester Bros. . . . . | | 111 84 | |
| Stools, Thomas Trefrey & Co. . . | | 9 75 | |
| Total . . . . . | | | $16,496 23 |
| Balance unexpended . . . . | | | $3 77 |

**Public Property (Old High School House, Furnishings and Fittings).**

| | | | |
|---|---|---|---|
| Appropriation. . . . . | | | $1,900 00 |
| EXPENDED. | | | |
| For Advertising, Jas. Cox . . . . | | 1 32 | |
| Carting piano, Henry T. Miller & Son . | | 9 00 | |
| Clocks, E. Howard Watch Co. . . . | | 75 26 | |
| Electric work, Wm. H. Spiller, Jr. . . | | 13 00 | |
| Furniture and repairs: | | | |
| Harwood Mfg. Co. . . . | $315 25 | | |
| Heywood Bros. & Co. . . | 9 00 | | |
| Phillips Bros. & Co. . . . | 43 00 | | |
| T. B. Wentworth . . . | 227 84 | | |
| J. D. Ford . . . . | 35 00 | | |
| Chickering & Sons . . . | 88 00 | | |
| | | 718 09 | |
| Moving Furniture, J. R. & C. S. Hersum . | | 19 63 | |
| Physical Laboratories, C. L. Weldon . | | 913 00 | |
| Picture moulding, John Quin . . . | | 37 73 | |
| *Amounts carried forward* . . . | | $1,787 03 | $1,900 00 |

| | | |
|---|---|---|
| *Amounts brought forward* . . . | $1,787 03 | $1,900 00 |
| Plans, C. H. McClare . . . . . | 27 39 | |
| Platforms, W. H. Norris . . . . | 55 00 | |
| Slate links, Geo. V. Eldridge . . . | 28 00 | |
| Supplies, Weeks & Potter Co. . . | 1 70 | |
| Total . . . . . | | 1,899 12 |
| Balance unexpended . . . . | | $0 88 |

**Public Property (Wellington School House).**

| | |
|---|---|
| Appropriation . . . . . | $20,000 00 |
| Additional appropriation . . . . | 500 00 |
| | $20,500 00 |

EXPENDED.

| | | |
|---|---|---|
| For architect's services, C. H. McClare . | $150 00 | |
| Contract for Building, Briggs Bros. . . | 8,400 00 | |
| Total . . . . . | | 8,550 00 |
| Balance unexpended . . . . | | $11,950 00 |

**Public Property (Incidentals).**

| | |
|---|---|
| Appropriation . . . . . | $2,700 00 |
| Transferred from Incidental Expenses . | 704 40 |
| | $3,404 40 |

EXPENDED.

| | | | |
|---|---|---|---|
| For Salary of Supt. of Public Buildings: | | | |
| Benj. H. Steele . . | $1,749 96 | | |
| Inspector, James Richardson | 615 31 | | |
| Clerk, E. W. Pike . . | 210 00 | | |
| | | $2,575 27 | |
| Advertising, James Cox . . . . | | 6 58 | |
| Board and care of horse, Geo. D. Merrill | | 300 00 | |
| *Amounts carried forward* . . . | | $2,881 85 | $3,404 40 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $2,881 85 | $3,404 40 |
| Care and repair of tower clocks: | | | |
| F. M. Bush . . . | $21 83 | | |
| Chas. H. Chandler . . | 26 00 | | |
| W. L. Crosby . . . | 6 50 | | |
| First Universalist Society . | 26 00 | | |
| A. K. Jones . . . | 53 00 | | |
| Geo. M. Stevens . . | 11 89 | | |
| H. S. Woodworth . . | 32 00 | | |
| | | 177 22 | |
| Carriage repairs, F. Ivers & Son . . | | 21 75 | |
| Car tickets, W. E. Street Railway Co. . | | 15 00 | |
| Carriage hire: | | | |
| J. E. Fabyan . . . | $14 00 | | |
| Samuel Giddings . . | 26 00 | | |
| Lake & Moynahan . . | 15 00 | | |
| | | 55 00 | |
| Ensign, Irving W. Wheeler & Co. . . | | 20 19 | |
| Harness, G. D. Merrill & Co. . . | | 50 | |
| Horse-shoeing, Wm. Balmer . . . | | 22 88 | |
| Mass. Reports, Little, Brown & Co. . . | | 3 00 | |
| Paste, J. H. & J. P. Thayer & Co. . . | | 75 | |
| Refreshments, M. R. Jones . . . | | 25 50 | |
| Repairing flag, Mrs. G. Richardson . . | | 1 50 | |
| Rifle Range: | | | |
| Carpentry: | | | |
| I. P. Estes . $4 15 | | | |
| W. H. Norris . 39 40 | | | |
| | 43 55 | | |
| Rent of land, Est. Harriet L. Stone . . . | 66 00 | | |
| | | 103 55 | |
| Stationery and Printing: | | | |
| Cashman, Keating & Co. . | $7 50 | | |
| Cotton & Gould . . | 23 20 | | |
| Jas. H. Cox . . . | 28 50 | | |
| Harvard Printing Co. . . | 6 80 | | |
| Stationery account . . | 7 21 | | |
| | | 73 21 | |
| Whip, F. Ivers & Son . . . . | | 2 50 | |
| Total | | | $3,404 40 |

## School Department (Incidental Expenses).

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $750 00 |
| Transferred from Text-books and Supplies | | | 150 00 |
| | | | $900 00 |

EXPENDED.

| | | | |
|---|---|---|---|
| For salaries of : | | | |
| Secretary, S. B. Hubbard | $300 00 | | |
| Page, A. W. Chamberlain | 25 00 | | |
| | | 325 00 | |
| Advertising : | | | |
| Cambridge Chronicle . | $10 50 | | |
| James Cox . . . | 8 25 | | |
| F. S. Hill . . . | 10 12 | | |
| Sacred Heart Review . | 2 80 | | |
| | | 31 67 | |
| Car tickets, W. E. Street Railway Co. . | | 125 00 | |
| Cash expended for travelling expenses, etc., Francis Cogswell . . . | | 63 67 | |
| Coll. Statistics, Sanford B. Hubbard . | | 6 00 | |
| Photographs, D. W. Butterfield . . | | 17 00 | |
| Printing, etc. : | | | |
| James Cox . . . | $25 00 | | |
| James H. Cox . . | 13 75 | | |
| John Ford & Sons . . | 5 75 | | |
| Harvard Printing Co. . | 226 28 | | |
| G. B. Lenfest . . . | 5 50 | | |
| W. H. Wheeler . . | 46 20 | | |
| John Wilson & Son . | 4 25 | | |
| | | 326 73 | |
| Total . . . . . | | | 895 07 |
| Balance unexpended . . . | | | $4 93 |

## School Department (Salaries).

| | | |
|---|---|---|
| Appropriation | | $207,000 00 |
| Surplus revenue | | 338 07 |
| Transferred from Incidental Expenses | | 4,016 90 |
| | | $211,354 97 |

RECEIVED.

| | | |
|---|---|---|
| For Tuition of non-residents | $965 50 | |
| Income from Hopkins Fund | 772 57 | |
| | | $1,738 07 |

EXPENDED.

| | | |
|---|---|---|
| For salaries of: | | |
| Supt., Francis Cogswell | | 3,000 00 |
| Agent, S. B. Hubbard | | 1,700 00 |
| Clerk, Althea B. Frost. | | 500 00 |
| Special Instructors: | | |
| Music, Frederick E. Chapman | | 1,560 00 |
| Drawing, Walter F. Brackett | | 1,700 00 |
| Sewing: | | |
| Agnes Gordon | $600 00 | |
| Georgia Jones | 600 00 | |
| Alice H. Nay | 150 00 | |
| | | 1,350 00 |
| Teachers in Latin School | $12,751 07 | |
| English High School | 20,488 50 | |
| Grammar Schools | 86,393 50 | |
| Primary Schools | 60,337 90 | |
| Wellington Training School | 7,951 00 | |
| Kindergarten Schools | 6,112 25 | |
| Evening Schools | 4,210 75 | |
| | | 193,244 97 |
| Special Teacher, Lelia A. Mirick | | 600 00 |
| Truant Officers. | | 2,700 00 |
| Total | | $211,354 97 |

**School Department (Text-books and Supplies).**

| | | |
|---|---|---|
| Appropriation . . . . . | | $13,000 00 |
| Transferred to School Dept. Incidentals | | 150 00 |
| | | $12,850 00 |
| RECEIVED. | | |
| For sale of books and supplies . . | $300 00 | |
| EXPENDED. | | |
| For apparatus and supplies: | | |
| Boston School Supply Co. | $15 80 | |
| Brown, Durrell & Co. . | 21 25 | |
| Burditt & Williams . | 51 52 | |
| Henry G. Carey . . | 70 00 | |
| W. B. Clarke & Co. . | 9 00 | |
| Codman & Shurtleff . | 5 00 | |
| Dennison Mfg. Co. . | 5 40 | |
| Davidson Rubber Co. . | 63 15 | |
| Dover Stamping Co. . | 18 05 | |
| Eimer & Amend . . | 447 18 | |
| Franklin Ed. Co. . . | 67 68 | |
| Frost & Adams . . | 140 33 | |
| Abram French & Co. . | 20 30 | |
| Ginn & Co. . . . | 14 40 | |
| Greenough, Adams & Cushing . . . | 616 02 | |
| Thomas Groom & Co. . | 8 50 | |
| J. W. C. Gilman & Co. . | 2 40 | |
| J. L. Hammett & Co. . | 421 71 | |
| D. C. Heath & Co. . . | 34 40 | |
| A. Hetschel . . . | 112 25 | |
| J. C. Haynes . . . | 10 80 | |
| H. W. Johns Mfg. Co. . | 5 16 | |
| G. F. King & Merrill . | 264 56 | |
| G. S. Perry & Co. . | 160 77 | |
| Prang Ed. Co. . . | 795 18 | |
| Pulsifer, Jordan & Co. . | 1,787 10 | |
| G. H. Ritcher & Co. . | 9 90 | |
| E. C. Ritchie & Sons . | 244 85 | |
| *Amounts carried forward* | $5,422 66 | $12,850 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $5,422 66 | | $12,850 00 |
| For apparatus and supplies: | | | |
| A. L. Russell | 161 40 | | |
| Standard Turning Works | 15 00 | | |
| S. Thaxter & Son | 10 00 | | |
| A. G. Whitcomb | 24 15 | | |
| Winkley, Dresser & Co. | 282 87 | | |
| Weeks & Potter Co. | 73 11 | | |
| Wheeler, Blodgett & Co. | 25 81 | | |
| A. J. Wilkinson & Co. | 53 56 | | |
| | | 6,068 56 | |
| Assistants to Director of Drawing: | | | |
| Edith W. Richardson | $107 50 | | |
| Ella C. Whitney | 5 00 | | |
| | | 112 50 | |
| Books: | | | |
| Allyn & Bacon | $37 92 | | |
| American Book Co. | 1,084 41 | | |
| Boston School Supply Co. | 55 02 | | |
| Otis Clapp & Son | 38 60 | | |
| DeWolfe, Fisk & Co. | 82 03 | | |
| Ginn & Co. | 1,183 16 | | |
| Greenough, Adams & Cushing | 88 16 | | |
| D. C. Heath & Co. | 206 17 | | |
| Houghton, Mifflin & Co. | 110 38 | | |
| Interstate Pub. Co. | 20 00 | | |
| Lee & Shepard | 189 78 | | |
| Leach, Shewell & Sanborn | 204 29 | | |
| D. Lothrop & Co. | 62 75 | | |
| F. F. Murdock | 8 45 | | |
| Mass. Bible Society | 11 00 | | |
| N. E. Pub. Co. | 8 75 | | |
| Carl Schoenhof | 229 68 | | |
| Silver, Burdett & Co. | 117 51 | | |
| W. Small | 16 02 | | |
| Thompson, Brown & Co. | 583 37 | | |
| University Pub. Co. | 179 19 | | |
| Wm. Ware & Co. | 340 55 | | |
| | | 4,857 19 | |
| *Amounts carried forward* | | $11,038 25 | $12,850 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $11,038 25 | $12,850 00 |
| Binding books, A. K. Allstine . . | | 95 48 | |
| Boxes: | | | |
| Chas. Place . . . | $20 00 | | |
| Geo. G. Page Box Co. . | 27 90 | | |
| | | 47 90 | |
| Cups, Brock Bros. . . . . | | 6 80 | |
| Carpentry, W. H. Norris . . . | | 25 16 | |
| Car Tickets, West End St. Railway Co. | | 15 00 | |
| Cash expended for sundries: | | | |
| S. B. Hubbard . . . | $50 48 | | |
| F. A. Hill . . . | 21 40 | | |
| C. W. Parmenter . . | 21 96 | | |
| Delia Stickney . . . | 27 45 | | |
| Emma A. Scudder . . | 3 43 | | |
| Chas. F. Warner . . | 18 77 | | |
| | | 143 49 | |
| Directories, Edgar F. Hunt & Co. . | | 10 00 | |
| Diplomas: | | | |
| Boston Bank Note Co. . | $87 23 | | |
| W. H. Thompson . . | 15 00 | | |
| | | 102 23 | |
| Expressage: | | | |
| Bancroft's Express . . | $17 70 | | |
| P. Biggin . . . | 43 25 | | |
| H. W. Bettinson & Co. . | 15 95 | | |
| F. H. Chase . . . | 39 40 | | |
| J. R. & C. S. Hersum . | 29 79 | | |
| Savage & Son . . . | 2 20 | | |
| Sawin's Express . . | 45 49 | | |
| Wm. Seymour . . . | 32 29 | | |
| | | 226 07 | |
| Gas fittings, N. W. Turner Co. . . | | 15 35 | |
| Iron work, Miller & Shaw . . . | | 3 70 | |
| Labor on drawing-cases, Alice H. Nay | | 15 10 | |
| Lettering Diplomas: | | | |
| E. W. Pike . . . | $6 25 | | |
| Henry Reichard . . | 96 45 | | |
| | | 102 70 | |
| Mounting maps, Chas. Place . . | | 9 19 | |
| *Amounts carried forward* . . | | $11,856 42 | $12,850 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $11,856 42 | $12,850 00 |
| Printing: | | | |
| James Cox . . . | $8 00 | | |
| James H. Cox . . . | 13 20 | | |
| John Ford & Son . . | 112 50 | | |
| Harvard Printing Co. . | 194 55 | | |
| G. B. Lenfest . . . | 83 55 | | |
| W. H. Wheeler . . | 11 75 | | |
| | | 423 55 | |
| Ribbon for Diplomas: | | | |
| D. W. Hyde & Co. . . | $1 53 | | |
| J. K. C. Sleeper & Co. . | 47 77 | | |
| | | 49 30 | |
| Scales and weights, Fairbanks Co. . | | 75 57 | |
| Tuning piano-fortes: | | | |
| L. M. Eldridge . . | $10 50 | | |
| O. D. Howlett . . . | 5 00 | | |
| | | 15 50 | |
| Total . . . . . | | | 12,420 34 |
| Balance unexpended . . . . | | | $429 66 |

## Sealer of Weights and Measures.

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $1,300 00 |
| Surplus revenue . . . . . | | | 247 59 |
| Transferred from Incidental Expenses . | | | 350 00 |
| | | | $1,897 59 |
| RECEIVED. | | | |
| Fees for Sealing . . . . . | | $492 81 | |
| Weighing . . . . . | | 204 78 | |
| | | 697 59 | |
| EXPENDED. | | | |
| For Salary of Sealer: | | | |
| B. Otis Danforth, . . | $81 48 | | |
| Albert F. Roberts . . | 615 33 | | |
| Assistants: | | | |
| C. D. Kinnear . . | 263 75 | | |
| John F. Wheeler . . | 2 63 | | |
| | | 963 19 | |
| *Amounts carried forward* . . . | | $963 19 | $1,897 59 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $963 19 | $1,897 59 |
| Advertising, James Cox . . . | | 3 33 | |
| Car Tickets, West End St. Railway Co. | | 10 00 | |
| Cash expended, A. F. Roberts . . | | 3 00 | |
| Horse, Street Dept. . . . . | | 225 00 | |
| Horse board: | | | |
| G. D. Merrill & Co. . | $190 83 | | |
| Street Dept. . . | 47 50 | | |
| | | 238 33 | |
| Horse clipping, James Bolger . . | | 3 00 | |
| Horse-shoeing, Wm. Balmer . . | | 7 01 | |
| Keys, C. L. Bradlee . . . . | | 1 25 | |
| Knife, Amee Bros. . . . . | | 1 35 | |
| Repairs of scales: | | | |
| E. Howard Watch Co. . . . | | 18 00 | |
| Repairs of Wagon: | | | |
| F. Ivers & Son . . . . | | 29 50 | |
| Sealing press: | | | |
| A. Woodman Mfg. & Sup. Co. . | | 11 25 | |
| Stamps & Brands, A. D. Carleton . | | 6 90 | |
| Stationery, printing and postage: | | | |
| James H. Cox . . | $9 75 | | |
| Harvard Printing Co. . | 12 75 | | |
| Morgan, Crossman & Co. | 2 00 | | |
| Stationery Dept. . . | 11 77 | | |
| | | 36 27 | |
| Tools, hardware, etc.: | | | |
| Burditt & Bynner . . | $4 38 | | |
| J. H. Prescott & Son . | 1 42 | | |
| The Fairbanks Co. . | 18 53 | | |
| | | 24 33 | |
| Weighers: | | | |
| Thomas Gurnham . . | $21 34 | | |
| T. Sullivan . . . | 81 05 | | |
| | | 102 39 | |
| Total . . . . . | | | 1,684 10 |
| Balance unexpended . . . | | | $213 49 |

## Sewers (Construction).

| | | |
|---|---|---|
| Appropriation | | $20,000 00 |
| Surplus revenue | | 2,716 34 |
| | | $22,716 34 |

RECEIVED.

| | |
|---|---|
| For filling | $3 80 |
| Permits to connect with sewers | 201 44 |
| Sewer Assessments | 12,511 10 |
| | $12,716 34 |

EXPENDED.

| | | | |
|---|---|---|---|
| For labor, as per pay rolls | | $10,184 21 | |
| Bricks, Wm. C. Norcross | | 839 70 | |
| Carpentry, J. H. Keenan | | 76 62 | |
| Castings, catch basins, etc.: | | | |
| Barbour, Stockwell & Co. | $741 53 | | |
| Coleman Sewer Trap Co. | 5 00 | | |
| Boston Double Catch Basin, Sewer and House Trap Co. | 136 50 | | |
| | | 883 03 | |
| Fuel: | | | |
| H. G. Jordan & Co. | $30 96 | | |
| H. Wellington & Co. | 9 48 | | |
| | | 40 44 | |
| Gravel and sand: | | | |
| Thomas O'Hara | $65 00 | | |
| John Quin | 25 00 | | |
| | | 90 00 | |
| Hardware, tools, etc.: | | | |
| Burditt & Bynner | $14 00 | | |
| Miller & Shaw | 59 60 | | |
| | | 73 60 | |
| Lumber, E. D. Sawyer & Co. | | 607 30 | |
| Oil: | | | |
| Maverick Oil Co. | $4 21 | | |
| Standard Oil Co. | 3 95 | | |
| | | 8 16 | |
| *Amounts carried forward* | | $12,803 06 | $22,716 34 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $12,803 06 | $22,716 34 |
| Pipe and cement: | | | |
| D. W. Lewis . . . | $263 28 | | |
| Portland Stone Ware Co. . | 3,424 72 | | |
| Geo. M. Winslow & Co. . | 49 95 | | |
| | | 3,737 95 | |
| Piles: | | | |
| Geo. H. Cavanagh . . | $488 80 | | |
| John T. Scully . . . | 173 74 | | |
| | | 662 54 | |
| Repairing tools: | | | |
| Chas. H. Goldsmith . . | $6 80 | | |
| Wight & Scorgie . . | 97 31 | | |
| | | 104 11 | |
| Rebate of overcharge, Hannah B. Merrill | | 2 06 | |
| Stone: | | | |
| John J. Cuddihy . . . | $200 00 | | |
| Austin Ford . . . | 136 70 | | |
| | | 336 70 | |
| Teaming: | | | |
| P. Biggin . . . . | $93 22 | | |
| J. F. Coolidge . . . | 1 79 | | |
| Thos. O'Hara, Jr. . . | 635 00 | | |
| John Quin . . . . | 15 00 | | |
| | | 745 01 | |
| Use of scow and boat, J. T. Scully . | | 100 00 | |
| Use of Engines: | | | |
| E. R. Cheney . . . | $124 50 | | |
| Geo. E. Worthen . . | 24 00 | | |
| | | 148 50 | |
| Total . . . . . | | | 18,659 93 |
| Balance unexpended . . . | | | $4,056 41 |

**Sewers (Maintenance).**

| | |
|---|---|
| Appropriation . . . . | $30,000 00 |
| Transferred to Incidental Expenses . . | 4,500 00 |
| *Amount carried forward* . . . | $25,500 00 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . . | | | $25,500 00 |
| RECEIVED. | | | |
| From City of Somerville for a portion of the expense of cleaning the outlet to the Bridge Street Sewer . . . | | $1,217 47 | |
| For Labor and materials . . . . | | 43 15 | |
| Horses . . . . . | | 90 00 | |
| Rent of house in yard . . . . | | 108 00 | |
| | | $1,458 62 | |
| EXPENDED. | | | |
| For salaries of | | | |
| Supt., T. L. Pike. . . | $1,700 00 | | |
| Clerk, Mary E. Rowen . | 267 00 | | |
| Laborers . . . . | 10,050 47 | | |
| | | $12,017 47 | |
| Advertising: | | | |
| Boston Herald Co. . . | $1 88 | | |
| James Cox . . . . | 1 74 | | |
| | | 3 62 | |
| Bricks, Wm. C. Norcross . . . | | 390 70 | |
| Carpeting, D. W. Hyde & Co. . . | | 8 20 | |
| Carpentry, J. H. Keenan . . . | | 125 92 | |
| Canvas, Nolan Bros. . . . . | | 82 00 | |
| Carriage, F. Ivers & Son . . . | | 100 00 | |
| Carriage repairs: | | | |
| Chas. McMahon . . . | $12 00 | | |
| Chas. Waugh & Co. . . | 1 75 | | |
| | | 13 75 | |
| Car tickets, West End St. Railway Co. . | | 60 00 | |
| Castings, Barbour, Stockwell & Co. . | | 389 53 | |
| Contract, Building shed, Sedley Chaplin . | | 522 00 | |
| Cleaning catch basins, John Horrigan . | | 1,932 00 | |
| Dredging Bridge St. Sewer Outlet: | | | |
| Boynton Bros. . . . . | | 1,937 65 | |
| Empty bags, Geo. G. Wright . . . | | 1 50 | |
| Expressage, Savage & Son . . . | | 4 20 | |
| Fuel: H. G. Jordan & Co. . | $74 48 | | |
| Wellington & Buck . . | 28 80 | | |
| H. Wellington & Co. . . | 4 74 | | |
| | | 108 02 | |
| *Amounts carried forward* . | | $17,696 56 | $25,500 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . . | | $17,696 56 | $25,500 00 |
| Gas, Cambridge Gas Light Co. . . | | 21 63 | |
| Grading land on Alewife Brook: | | | |
| Penney Bros. . . . . | | 160 00 | |
| Gravel, John Quin . . . . . | | 40 50 | |
| Hardware, tools and repairs: | | | |
| Burditt & Bynner . . | $218 84 | | |
| Brock Bros. . . . . | 5 43 | | |
| Edson Mfg. Co. . . . | 2 60 | | |
| C. H. Goldsmith . . . | 29 40 | | |
| Greene & Co. . . . | 9 66 | | |
| James Maitland . . . | 104 45 | | |
| H. A. Scranton . . . | 4 00 | | |
| Whittier Hardware Co. . | 22 10 | | |
| | | 396 48 | |
| Harness and repairs: | | | |
| John Hancock . . . | $37 35 | | |
| F. Ivers & Son . . . | 103 50 | | |
| | | 140 85 | |
| Hay, grain and straw: | | | |
| Chas. James . . . | $10 50 | | |
| E. R. Luke & Co. . . | 412 68 | | |
| | | 423 18 | |
| Hose and rubber goods: | | | |
| Boston Woven Hose and Rubber Co. . . . | $192 61 | | |
| Conant Rubber Co. . . | 75 00 | | |
| Patrick Collins . . . | 22 08 | | |
| | | 289 69 | |
| Horses, Wm. Nokes . . . . | | 525 00 | |
| Horse clipping, John Smith . . . | | 6 00 | |
| Horse-shoeing, John F. Gurry . . . | | 68 67 | |
| Horse medicines, A. R. Bailey & Co. . | | 6 20 | |
| Iron work: | | | |
| Wm. Campbell & Co. . . | $6 20 | | |
| Miller & Shaw . . . | 41 12 | | |
| | | 47 32 | |
| Lubricators, Boston Sub. Axle Lub. Co. | | 12 00 | |
| Loam: | | | |
| Thomas O'Hara . . . | $3 00 | | |
| H. F. Sparrow . . . | 2 25 | | |
| | | 5 25 | |
| *Amounts carried forward* . | | $19,839 33 | $25,500 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . . | | $19,839 33 | $25,500 00 |
| Lumber, E. D. Sawyer & Co. . . . | | 298 39 | |
| Masonry, James Mahoney . . . | | 6 00 | |
| Oil clothing, H. M. Sawyer & Son . . | | 27 50 | |
| Oil: | | | |
| Maverick Oil Co. . . . | $18 10 | | |
| Standard Oil Co. . . . | 4 15 | | |
| | | 22 25 | |
| Pipe, cement: | | | |
| D. W. Lewis . . . | $335 50 | | |
| Portland Stone Ware Co. . | 1,003 49 | | |
| Geo. M. Winslow & Co. . | 71 55 | | |
| | | 1,410 54 | |
| Piles, John T. Scully . . . . | | 87 71 | |
| Poles, Coleman Bros. . . . . | | 50 | |
| Printing and stationery: | | | |
| James H. Cox . . . | $18 75 | | |
| Cashman, Keating & Co. . | 4 00 | | |
| Cotton & Gould . . . | 14 50 | | |
| John Ford & Son . . | 3 25 | | |
| | | 40 50 | |
| Repairing drain, Jeremiah Green . . | | 23 63 | |
| Repairing pump, Boston W. H. & R. Co. | | 1 50 | |
| Repairing rubber boots, J. H. Peters . | | 7 60 | |
| Repairing wagons: | | | |
| F. Ivers & Son . . . | $56 75 | | |
| Chas. Waugh & Co. . . | 267 25 | | |
| | | 324 00 | |
| Rent of land, I. L. Russell . . . | | 25 00 | |
| Rope, cordage, etc., M. F. Whiton & Co. | | 26 80 | |
| Rubber boots, Conant Rubber Co. . . | | 232 50 | |
| Sand: | | | |
| John F. O'Brien . . . | $1 00 | | |
| Thos. O'Hara . . . | 54 00 | | |
| John Quin . . . . | 25 00 | | |
| | | 80 00 | |
| Sewer cart, Chas. Waugh & Co. . . | | 100 00 | |
| Shoe driers, A. H. Hews & Co. . . | | 2 00 | |
| Stone, Street Dept. . . . . | | 105 00 | |
| Supply pipe, Camb. Water Works . . | | 3 57 | |
| *Amounts carried forward* . . . | | $22,664 32 | $25,500 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . . | | $22,664 32 | $25,500 00 |
| Teaming: | | | |
| P. Biggin . . . . | $60 74 | | |
| John Gallivan . . . | 4 00 | | |
| Thomas O'Hara, Jr. . . | 786 25 | | |
| Thomas H. O'Hara . . | 19 25 | | |
| John Quin . . . . | 15 00 | | |
| | | 885 24 | |
| Use of Engine, E. R. Cheney . . . | | 115 00 | |
| Total . . . . . | | | 23,664 56 |
| Balance unexpended . . . | | | $1,835 44 |

**State Aid.**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $24,000 00 |
| Surplus revenue . . . . . | | | 732 50 |
| Transferred from Incidental Expenses . | | | 529 80 |
| | | | $25,262 30 |

RECEIVED.

| | | | |
|---|---|---|---|
| From the Commonwealth of Mass. in reimbursement, in part, of the amount the City has advanced in conformity to the laws of the State, to volunteers and their families or other dependents of volunteers in the army and navy | | | |
| For military aid . . . | $2,265 50 | | |
| State aid . . . . | 10,982 50 | | |
| Burial of soldiers and sailors | 350 00 | | |
| | | 13,598 00 | |
| Money not called for on pay rolls . . | | 134 50 | |
| | | 13,732 50 | |

EXPENDED.

| | | | |
|---|---|---|---|
| For salary of clerk, Chas. L. Russell . | | 885 00 | |
| State Aid . . . . | $13,088 75 | | |
| Military Aid . . . | 3,392 00 | | |
| Soldiers' and Sailors' Aid, as per pay rolls | 5,802 00 | | |
| | | 22,282 75 | |
| *Amounts carried forward* . . . | | $23,167 75 | $25,262 30 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $23,167 75 | $25,262 30 |
| Aid by cities and towns: | | | |
| City of Boston . . . | $38 00 | | |
| Chicopee . . | 6 50 | | |
| New Bedford . | 30 50 | | |
| Waltham . . | 40 00 | | |
| Town of Wellfleet . . | 47 23 | | |
| | | 162 23 | |
| Ambulance, C. W. Dailey . . . | | 2 00 | |
| Board and care: | | | |
| City of Cambridge . . | $635 61 | | |
| Carney Hospital . . | 2 29 | | |
| Danvers Lunatic Hospital . | 214 17 | | |
| Taunton Lunatic Hospital . | 169 92 | | |
| Worcester Lunatic Hospital | 31 57 | | |
| Com. of Mass. at State Farm . . . . | 109 60 | | |
| | | 1,163 16 | |
| Boots, C. D. Wilder . . . . | | 4 50 | |
| Burials: | | | |
| John W. Coveney . . | $105 00 | | |
| Jos. J. Kelley . . . | 140 00 | | |
| H. D. Litchfield . . . | 130 00 | | |
| C. H. Lockhart . . . | 70 00 | | |
| A. E. Long . . . | 35 00 | | |
| Alfred C. Mann . . . | 35 00 | | |
| James Mullen . . . | 35 00 | | |
| Wm. Ross & Son . . | 35 00 | | |
| | | 585 00 | |
| Carriage hire, M. J. Fairbanks . . | | 8 00 | |
| Car tickets, West End Street Railway Co. | | 15 00 | |
| Directory, W. A. Greenough & Co. . . | | 2 50 | |
| Dry goods, J. H. Corcoran & Co. . . | | 12 00 | |
| Fuel: | | | |
| Richardson & Bacon . . | $12 45 | | |
| Geo. M. Smith . . . | 3 00 | | |
| H. Wellington & Co. . . | 11 55 | | |
| | | 27 00 | |
| *Amounts carried forward* . . | | $25,149 14 | $25,262 30 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $25,149 14 | $25,262 30 |
| Prescriptions: | | | |
| A. R. Bailey . . . | $1 45 | | |
| L. W. Reycroft . . . | 50 | | |
| S. H. Talbot . . . | 50 | | |
| | | 2 45 | |
| Printing and stationery: | | | |
| Cotton & Gould . . | $13 50 | | |
| John Ford & Son . . | 61 00 | | |
| Harvard Printing Co. . . | 5 50 | | |
| | | 80 00 | |
| Sundry Supplies: | | | |
| Geo. A. Davis . . . | $21 00 | | |
| Geo. E. Francis . . . | 4 00 | | |
| | | 25 00 | |
| Travelling expenses, etc., C. L. Russell . | | 5 71 | |
| Total . . . . . | | | $25,262 30 |

**Sinking Funds.**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $91,770 00 |
| EXPENDED. | | | |
| For salaries of | | | |
| Treasurer, Wm. W. Dallinger | $300 00 | | |
| Clerk, John McDuffie . . | 25 00 | | |
| | | $325 00 | |
| Appropriation as required by City Ordinance for payment of debt, Commissioners of Sinking Funds . . . | | 91,405 00 | |
| Rent, Boston Safe Deposit Co. . . | | 40 00 | |
| Total . . . . . | | | $91,770 00 |

**Stationery and Printing.**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $2,500 00 |
| Surplus revenue . . . . . | | | 75 63 |
| Transferred from Incidental Expenses . | | | 300 00 |
| | | | 2,875 63 |
| RECEIVED. | | | |
| For supplies furnished sundry departments | | $575 63 | |
| *Amount carried forward* . . . | | | $2,875 63 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . . | | | $2,875 63 |
| EXPENDED. | | | |
| For Advertising: | | | |
| D. A. Buckley . . . | $12 50 | | |
| James Cox . . . . | 326 41 | | |
| F. Stanhope Hill. . . . | 2 50 | | |
| | | $341 41 | |
| Binding City Documents: | | | |
| J. H. H. McNamee . . . . | | 45 00 | |
| Examination of bills, Chas. Walker . . | | 10 00 | |
| Newspapers, James Cox . . . . | | 8 00 | |
| Paper, S. G. Harding . . . . | | 15 93 | |
| Postage: | | | |
| G. W. Ring . . . . | $409 00 | | |
| Winkley, Dresser & Co. . | 5 00 | | |
| | | 414 00 | |
| Printing: | | | |
| James Cox . . . . | $203 75 | | |
| John Ford & Son . . . | 43 25 | | |
| J. Frank Facey . . . | 13 75 | | |
| Harvard Printing Co. . | 1,200 82 | | |
| John Wilson & Son . . | 42 60 | | |
| | | 1,504 17 | |
| Stationery: | | | |
| A. Bennett & Co. . . . | $3 20 | | |
| Cotton & Gould . . . | 235 73 | | |
| Winkley, Dresser & Co. . | 100 43 | | |
| | | 339 36 | |
| Total . . . . . | | | 2,677 87 |
| Balance unexpended . . . | | | $197 76 |

**Street Department (Bridges, Construction).**

| | |
|---|---|
| Appropriation . . . . . | $9,500 00 |
| Transferred from Incidental Expenses . | 1,600 00 |
| *Amount carried forward* . . . | $11,100 00 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . . | | | $11,100 00 |
| EXPENDED. | | | |
| For Advertising: | | | |
| Boston Herald Co. . . | $11 00 | | |
| James Cox . . . . . | 3 98 | | |
| Engineering News Pub. Co. | 6 40 | | |
| Engineering Record . . | 18 40 | | |
| | | $39 78 | |
| Bent Plate, D. H. Andrews . . . | | 5 58 | |
| Contracts: | | | |
| Walden St. Bridge, | | | |
| King Bridge Co. . . | $2,006 25 | | |
| Western Av. Bridge: | | | |
| Wm. L. Miller . . . | 4,955 00 | | |
| | | 6,961 25 | |
| Inspection of work at Walden St. Bridge: | | | |
| G. W. G. Ferris & Co.. . . . | | 26 67 | |
| Lumber, N. N. Stickney . . . . | | 18 14 | |
| Labor, as per pay rolls . . . . | | 94 31 | |
| Printing, Harvard Printing Co. . . | | 25 00 | |
| Rebuilding Abutments, Walden St. Bridge: | | | |
| John Moyle . . . . . | | 2,410 17 | |
| Stone: | | | |
| F. W. Mead . . . | $72 95 | | |
| Overseers of the Poor . . | 3 83 | | |
| | | 76 78 | |
| Travelling expenses, L. M. Hastings . | | 42 80 | |
| Total . . . . . | | | $9,700 48 |
| Balance unexpended . . . | | | $1,399 52 |

**Street Department (Bridges, Maintenance).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $3,500 00 |
| Revenue . . . . . | | | 114 62 |
| | | | $3,614 62 |
| RECEIVED. | | | |
| From Town of Arlington for expenses on Alewife Brook Culvert . | $114 62 | | |
| *Amount carried forward* | | | $3,614 62 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . . | | | $3,614 62 |
| EXPENDED. | | | |
| For salaries of drawtenders: | | | |
| Wm. Burgess . . . . | $708 88 | | |
| Martin Flaherty . . . | 1,046 67 | | |
| Nathaniel M. Neale . . | 602 88 | | |
| | | $2,358 43 | |
| Advertising: | | | |
| Boston Herald Co. . . | $5 00 | | |
| Cambridge Chronicle . . | 2 00 | | |
| | | 7 00 | |
| Cordage, Sewell & Day Cordage Co. . | | 4 78 | |
| Displacement of Tide Water, Com. of Mass. | | 10 50 | |
| Hardware, F. A. White . . . . | | 12 64 | |
| Iron work, Damon Safe and Iron Works . | | 1 50 | |
| Lumber: | | | |
| Geo. W. Gale Lumber Co. . | $241 81 | | |
| Wm. H. Wood & Co. . . | 121 06 | | |
| | | 362 87 | |
| Paint, Wadsworth, Howland & Co. . . | | 10 40 | |
| Printing: | | | |
| Jas. H. Cox . . . | $7 75 | | |
| Harvard Printing Co. . . | 38 00 | | |
| | | 45 75 | |
| Replanking Boylston Street Bridge: | | | |
| T. E. Ruggles & Co. . . . . | | 493 55 | |
| Widening draw ways, City of Boston . | | 110 67 | |
| Total . . . . . | | | 3,418 09 |
| Balance unexpended . . . . | | | $196 53 |

**Street Department (Construction and Maintenance, Belmont District).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $10,000 00 |
| EXPENDED. | | | |
| For labor, as per pay rolls. . . . | | $4,830 50 | |
| Bricks, Wm. C. Norcross . . . . | | 13 50 | |
| Catch Basin Stones, Sewer Dept. . . | | 24 11 | |
| *Amounts carried forward* . . . | | $4,868 11 | $10,000 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $4,868 11 | $10,000 00 |
| Grates, Barbour, Stockwell & Co. . . | | 17 00 | |
| Hardware, Whittier Hardware Co. . . | | 5 90 | |
| Hose, couplings, etc., Boston W. H. & R. Co. | | 13 75 | |
| Lumber, N. N. Stickney . . . . | | 134 00 | |
| Stone wall, Thos. Gavin . . . . | | 133 50 | |
| Teaming: | | | |
| James Boyle . . . . | $133 75 | | |
| C. S. Brainard . . . | 207 50 | | |
| John J. Brassill . . . | 86 25 | | |
| Peter Burns . . . . | 131 25 | | |
| T. A. Callahan . . . | 255 00 | | |
| Jane Cosgrove . . . | 75 00 | | |
| J. F. Culhane . . . | 291 25 | | |
| Patrick Dardis . . . | 236 25 | | |
| Joseph Finnick . . . | 250 00 | | |
| John Gallivan . . . | 317 50 | | |
| James Gray . . . . | 343 75 | | |
| Edward Lynch . . . | 326 25 | | |
| Jere McCrehan . . . | 260 00 | | |
| John McClellan . . . | 157 50 | | |
| Elizabeth Martell . . . | 95 00 | | |
| Timothy O'Keefe . . . | 155 00 | | |
| Michael O'Sullivan . . | 487 50 | | |
| John M. Riley . . . | 431 25 | | |
| Jere Sullivan . . . | 255 00 | | |
| David O'Mara . . . | 70 00 | | |
| Michael O'Neil . . . | 117 50 | | |
| | | 4,682 50 | |
| Water supply: | | | |
| Watertown Water Supply Co. . . | | 30 25 | |
| Total . . . . . | | | 9,885 01 |
| Balance unexpended . . . . | | | $114 99 |

**Street Department, Front Street (Filling and Grading).**

| | | |
|---|---|---|
| Appropriation. . . . . | | $9,140 65 |
| EXPENDED. | | |
| For labor, as per pay rolls . . . | $1,077 06 | |
| Execution, Land Damages, F. L. Ames . | 287 95 | |
| Edgestones, Wight & Scorgie . . . | 1,084 86 | |
| Poles, Alden D. Calef . . . . | 30 00 | |
| Trees, P. O'Brien & Son . . . . | 125 00 | |
| Total . . . . . | | 2,604 87 |
| Balance unexpended . . . . | | $6,535 78 |

**Street Department (Extension of First Street).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $19,500 00 |
| RECEIVED. | | | |
| From H. M. Whitney for improvements . . . | $2,500 00 | | |
| EXPENDED. | | | |
| For advertising, Globe Newspaper Co. . | | $5 00 | |
| Contract for building bridge, Leavitt, Dailey & Crockett . . . . | | 6,200 00 | |
| Driving and fitting dolphins: | | | |
| Huskins & Bendle . . . . | | 180 00 | |
| Hardware, Whittier Hardware Co. . | | 2 20 | |
| Labor, as per pay rolls . . . . | | 709 30 | |
| Inspector, Wm. L. Kimball . . . | | 280 00 | |
| Land and damage, Geo. L. Damon . | | 11,276 25 | |
| Lumber: | | | |
| Geo. W. Gale Lumber Co. | $119 29 | | |
| Wm. H. Wood & Co. . | 22 15 | | |
| | | 141 44 | |
| Stone: | | | |
| Austin Ford . . . | $111 00 | | |
| F. W. Mead . . . | 2 48 00 | | |
| | | 359 00 | |
| Total . . . . . | | | 19,153 19 |
| Balance unexpended . . . | | | $346 81 |

**Street Department, Extension and Widening (Huron Street).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $16,000 00 |
| EXPENDED. | | | |
| For labor, as per pay rolls . . . | | $1,540 00 | |
| Stone, Frank H. Mead . . . . | | 1,218 99 | |
| Tools, Ames Plow Co. . . . . | | 21 94 | |
| Teaming: | | | |
| James Boyle . . . | $125 00 | | |
| C. S. Brainard . . | 125 00 | | |
| Peter Burns . . . | 125 00 | | |
| T. A. Callahan . . | 125 00 | | |
| John F. Culhane . . | 122 50 | | |
| Patrick H. Dardis . . | 125 00 | | |
| Joseph Finnick . . | 125 00 | | |
| John Gallivan . . | 125 00 | | |
| James Gray . . . | 125 00 | | |
| Wm. Hart . . . | 120 00 | | |
| Elizabeth Martell . . | 116 25 | | |
| Patrick McNamara . . | 55 00 | | |
| Patrick Riley . . . | 82 50 | | |
| Jere Sullivan . . . | 121 25 | | |
| Joseph F. White . . | 66 25 | | |
| | | 1,683 75 | |
| Total . . . . . | | | 4,464 68 |
| Balance unexpended . . . | | | $11,535 32 |

**Street Department, Widening (Inman Street).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $1,142 00 |
| EXPENDED. | | | |
| For Land and damages: | | | |
| St. Luke's Reformed Episcopal Church | | $1,000 00 | |
| | | | 1,000 00 |
| Balance unexpended . . . | | | $142 00 |

### Street Department, Widening (North Avenue).

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $4,931 56 |
| Labor, as per pay rolls . . . . | | $521 00 | |
| Teaming: | | | |
| James Boyle . . . | $113 75 | | |
| C. S. Brainard . . . | 113 75 | | |
| Peter Burns . . . | 113 75 | | |
| N. J. McConologue . . | 62 50 | | |
| Jeremiah Sullivan . . | 176 25 | | |
| | | 580 00 | |
| Total . . . . . | | | 1,101 00 |
| Balance unexpended . . . | | | $3,830 56 |

### Street Department, Paving (Cambridge Street).

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $12,000 00 |
| EXPENDED. | | | |
| For labor, as per pay rolls . . . | | $4,011 72 | |
| Granite paving blocks: | | | |
| S. & R. J. Lombard . . . . | | 5,175 94 | |
| Gravel, Chas. Linehan . . . . | | 412 45 | |
| Teaming: | | | |
| James Boyle . . . | $116 25 | | |
| C. S. Brainard . . . | 123 75 | | |
| Peter Burns . . . | 116 25 | | |
| T. A. Callahan . . . | 118 75 | | |
| John Gallivan . . . | 113 75 | | |
| James Gray . . . | 118 75 | | |
| Wm. Hart . . . | 93 75 | | |
| Joseph Finnick . . | 118 75 | | |
| | | 920 00 | |
| Total . . . . . | | | 10,520 11 |
| Balance unexpended . . . | | | $1,479 89 |

**Street Department, Paving (Central Square).**

| | | |
|---|---|---|
| Appropriation . . . . . | | $6,000 00 |
| EXPENDED. | | |
| For labor, as per pay rolls . . . | $1,180 96 | |
| Paving blocks, S. & R. J. Lombard . | 3,403 56 | |
| Total . . . . . | ——— | 4,584 52 |
| Balance unexpended . . . | | $1,415 48 |

**Street Department, Paving (Edgestones and Sidewalks).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $80,000 00 |
| RECEIVED. | | | |
| For labor and materials . . . | | $364 79 | |
| Sidewalk and Edgestone Assessments . | | 18,011 99 | |
| | | $18,376 78 | |
| EXPENDED. | | | |
| For labor, as per pay rolls . . . | | $28,223 22 | |
| Advertising: | | | |
| Boston Herald Co. . . | $16 88 | | |
| James H. Cox . . . | 3 14 | | |
| Globe Newspaper Co. . | 16 88 | | |
| | ——— | 36 90 | |
| Bricks, M. W. Sands . . . . | | 13,804 00 | |
| Cement: | | | |
| Geo. W. Gale Lumber . | $22 50 | | |
| Wm. H. Wood & Co. . | 24 00 | | |
| | ——— | 46 50 | |
| Cutting paving blocks, Thomas Walsh | | 1,358 28 | |
| Rebate on sidewalk assessments: | | | |
| John M. Baitley Heirs . | $3 95 | | |
| Margaret Fitzpatrick . | 16 72 | | |
| John A. Proctor . . | 2 59 | | |
| E. H. Weston . . . | 90 | | |
| | ——— | 24 16 | |
| Cable and chalk, Ross, Turner & Co. . | | 7 65 | |
| Gravel and sand: | | | |
| Lucy L. C. Billings . . | $62 50 | | |
| Warren T. Billings . . | 14 00 | | |
| John Doody . . . | 63 90 | | |
| | ——— | ——— | ——— |
| *Amounts carried forward* . | $140 40 | $43,500 71 | $80,000 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | $140 40 | $43,500 71 | 80,000 00 |
| Gravel and sand: | | | |
| James M. Hilton . . | 14 00 | | |
| Chas. Linehan . . . | 978 20 | | |
| W. E. Rose . . . | 61 00 | | |
| John Sweeney . . . | 62 00 | | |
| Michael O'Sullivan . . | 628 20 | | |
| Jere Sullivan . . . | 91 25 | | |
| Richard Walker . . | 22 50 | | |
| | | 1,997 55 | |
| Hardware and tools: | | | |
| Ames Plow Co. . . . | $22 49 | | |
| Bigelow & Dowse . . | 255 43 | | |
| Dodge, Haley & Co. . . | 3 00 | | |
| Parker & Wood . . | 24 00 | | |
| F. A. White . . . | 17 30 | | |
| | | 322 22 | |
| Lumber: | | | |
| Geo. W. Gale Lumber Co. . | $34 17 | | |
| N. N. Stickney . . . | 86 36 | | |
| | | 120 53 | |
| Level, John W. Harmon . . . | | 5 00 | |
| Oil: | | | |
| Maverick Oil Co. . . | $56 19 | | |
| Standard Oil Co. . . | 32 93 | | |
| | | 89 12 | |
| Printing, Jas. H. Cox . . . . | | 2 25 | |
| Stone: — | | | |
| Crossing Stone: | | | |
| John J. Cuddihy . . | $1,961 28 | | |
| Austin Ford . . . | 796 00 | | |
| Edgestone: | | | |
| Jere McCarthy . . | 13 20 | | |
| S. & R. J. Lombard . | 5,932 15 | | |
| Wight & Scorgie . . | 8,797 35 | | |
| Paving Blocks: | | | |
| S. & R. J. Lombard . | 2,859 83 | | |
| Round and Cobble Stone: | | | |
| Wm. Driscoll . . . | 443 30 | | |
| James Hughes . . | 1,821 65 | | |
| P. O'Riorden . . . | 37 82 | | |
| *Amounts carried forward* | $22,662 58 | $46,037 38 | $80,000 00 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* | $22,662 58 | $46,037 38 | $80,000 00 |
| Stone:— | | | |
| Round and cobble stone: | | | |
| J. J. Sullivan | 5,889 32 | | |
| John Turner & Co. | 209 71 | | |
| West End St. Railway Co. | 614 85 | | |
| | | 29,376 46 | |
| Teaming: | | | |
| Wm. Condon | $30 00 | | |
| James Cosgrove | 10 00 | | |
| Jane Cosgrove | 100 00 | | |
| John Coughlin | 150 00 | | |
| Frank J. Coulter | 30 00 | | |
| Elizabeth Cox | 37 50 | | |
| James Culhane | 198 75 | | |
| Patrick Dardis | 120 00 | | |
| John A. Egan | 175 00 | | |
| Joseph Finnick | 120 00 | | |
| John J. Fitzgerald | 172 50 | | |
| Wm. Hart | 270 00 | | |
| M. F. Lamb | 30 00 | | |
| Charles Linehan | 32 50 | | |
| Charles Linehan, 2d. | 172 50 | | |
| Edward Lynch | 125 00 | | |
| Charles McMahon | 30 00 | | |
| Elizabeth Martell | 85 00 | | |
| Patrick McNamara | 345 00 | | |
| Jere McClellan | 235 00 | | |
| Jere McCrehan | 125 00 | | |
| M. F. Murphy | 30 00 | | |
| Thos. H. O'Hara | 477 50 | | |
| David O'Mara | 405 00 | | |
| Michael O'Neil | 290 00 | | |
| John Quin | 150 00 | | |
| Thos. M. Sorley | 30 00 | | |
| B. F. St. George | 30 00 | | |
| Peter Tumilty | 30 00 | | |
| | | 4,036 25 | |
| Towing, Lincoln Wharf Tow Boat Co. | | 225 00 | |
| Total | | | 79,675 09 |
| Balance unexpended | | | $324 91 |

## Street Department (Shade Trees and Public Grounds).

| | | |
|---|---|---|
| Appropriation | | $6,000 00 |
| Transferred from Incidental Expenses | | 800 00 |
| Revenue appropriated | | 95 35 |
| | | $6,895 35 |

RECEIVED.

| | |
|---|---|
| For removing trees, etc. | $95 35 |

EXPENDED.

| | | | |
|---|---|---|---|
| For salary of City Forester: | | | |
| James Doherty | $843 84 | | |
| Labor, as per pay rolls | 4,687 59 | | |
| | | 5,531 43 | |
| Band stand, Kelley & McKinnon | | 75 00 | |
| Carpentry, Ira G. Hersey | | 7 48 | |
| Cash expended for sundries, E. H. Reed | | 11 50 | |
| Knotted cover, Jas. Forgie & Son | | 1 25 | |
| Lumber, Geo. W. Gale Lumber Co. | | 73 16 | |
| Manure, R. T. Ross | | 26 00 | |
| Paint, oils, etc., Wadsworth, Howland & Co. | | 5 21 | |
| Plants and seeds: | | | |
| R. & J. Farquhar & Co. | $54 95 | | |
| P. O'Brien & Son | 115 00 | | |
| | | 169 95 | |
| Repairing flagstaffs, David Cass | | 219 43 | |
| Settees, Henry F. Jenks | | 488 00 | |
| Tools, hardware, etc.: | | | |
| Ames Plow Co. | $82 15 | | |
| Bigelow & Dowse | 11 01 | | |
| Dodge, Haley & Co. | 2 00 | | |
| F. A. White | 51 88 | | |
| | | 147 04 | |
| Teaming: | | | |
| J. F. Coolidge | $8 00 | | |
| Patrick J. Curley | 110 00 | | |
| | | 118 00 | |
| Total | | | 6,873 45 |
| Balance unexpended | | | $21 90 |

## Street Department (Watering).

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $21,000 00 |
| RECEIVED. | | | |
| From sundry persons for sprinkling streets . . . . . | | $13,914 05 | |
| EXPENDED. | | | |
| For labor, as per pay rolls. . . | | 1,750 38 | |
| Advertising, Jas. H. Cox . . . | | 14 65 | |
| Carpentry, Ira G. Hersey . . . | | 7 48 | |
| Collecting, Francis A. Cox . . | | 31 00 | |
| Freight, E. H. Reed . . . | | 6 36 | |
| Hardware, tools and supplies: | | | |
| Bigelow & Dowse . | $8 58 | | |
| Broadway Iron Foundry | 3 15 | | |
| Dodge, Haley & Co. . | 38 67 | | |
| Miller & Shaw . . | 1 25 | | |
| Rust & Richardson Drug Co. . . | 4 81 | | |
| Wm. H. Gallison . | 15 51 | | |
| Whittier Hardware Co. | 6 00 | | |
| | | 77 97 | |
| Hose, Boston Woven Hose & R. Co. . | | 44 75 | |
| Leather, R. D. Waterhouse . . | | 10 36 | |
| Lumber: | | | |
| Geo. W. Gale Lumber Co. | $35 78 | | |
| Wm. H. Wood & Co. . | 18 46 | | |
| | | 54 24 | |
| Lettering carts, E. Tucker . . . | | 42 00 | |
| Paints, oils, varnish, etc.: | | | |
| Wadsworth, Howland & Co. . . . | $102 85 | | |
| F. A. White . . | 249 36 | | |
| | | 352 21 | |
| Repairs on carts: | | | |
| Fred. H. Holton & Co. . | $74 12 | | |
| A. M. Wood . . | 91 60 | | |
| Chas. Waugh & Co. . | 31 00 | | |
| | | 196 72 | |
| *Amounts carried forward* . . | | $2,588 12 | $21,000 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $2,588 12 | $21,000 00 |
| Stationery and printing: | | | |
| James H. Cox . . | $17 61 | | |
| Cotton & Gould . . | 13 50 | | |
| | | 31 11 | |
| Sprinkling attachments: | | | |
| J. L. & H. K. Potter . . . | | 500 00 | |
| Sprinkling streets: | | | |
| John J. Brassil . . | $427 05 | | |
| John F. Coolidge . . | 859 05 | | |
| Wm. Condon . . | 497 70 | | |
| F. J. Coulter . . | 528 75 | | |
| Timothy Cosgrove . | 500 85 | | |
| Elizabeth Cox . . | 603 90 | | |
| James Coyle . . | 793 35 | | |
| Patrick J. Curley . . | 536 85 | | |
| Patrick H. Dardis . . | 542 25 | | |
| John Doody . . . | 960 30 | | |
| John J. Donahue . . | 409 50 | | |
| Robert Fawcett . . | 526 50 | | |
| Michael F. Lamb . . | 596 25 | | |
| Lynch & Flynn . . | 790 20 | | |
| John McClellan . . | 459 90 | | |
| J. H. McCarthy . . | 734 40 | | |
| Thos. McDermott . . | 539 10 | | |
| Chas. McMahon . . | 900 90 | | |
| Thos. McSorley . . | 960 75 | | |
| James E. Morse . . | 533 25 | | |
| M. F. Murphy . . | 378 90 | | |
| John Quinn . . . | 826 65 | | |
| Patrick Riley, Jr. . . | 443 25 | | |
| Michael J. Shea . . | 515 25 | | |
| B. F. St. George . . | 523 80 | | |
| Peter Tumilty, Jr. . | 837 00 | | |
| Jos. F. White . . | 949 50 | | |
| John J. Ward . . | 638 10 | | |
| | | 17,813 25 | |
| Total . . . . . | | | 20,932 48 |
| Balance unexpended . . . | | | $67 52 |

## Street Department (Maintenance).

| | | |
|---|---|---|
| Appropriation | | $115,000 00 |
| Additional appropriation | | 5,797 79 |
| Revenue appropriated | | 215 58 |
| | | $121,013 37 |

RECEIVED.

| | | |
|---|---|---|
| For ashes, scrapings, etc. | $1,705 85 | |
| Board and care of horse | 216 07 | |
| Chopping blocks | 23 50 | |
| Horse | 225 00 | |
| Labor and materials | 1,017 51 | |
| Sundries | 27 65 | |
| | $3,215 58 | |

EXPENDED.

| | | | |
|---|---|---|---|
| For salaries of | | | |
| Supt., E. H. Reed | $1,949 96 | | |
| Foremen, C.A. Brown | 1,099 00 | | |
| J. A. Sheridan | 1,099 00 | | |
| Clerk, G. M. Clukas | 1,087 50 | | |
| Labor, as per pay rolls | 60,964 88 | | |
| | | $66,200 34 | |
| Advertising: | | | |
| James Cox | $1 91 | | |
| Pettengill & Co. | 28 00 | | |
| | | 29 91 | |
| Teaming, other than done by the Department: | | | |
| P. Biggin | $2 25 | | |
| James Boyle | 458 99 | | |
| C. S. Brainard | 428 75 | | |
| John J. Brassil | 15 00 | | |
| Peter Burns | 367 50 | | |
| T. A. Callaghan | 607 50 | | |
| *Amounts carried forward* | $1,879 99 | $66,230 25 | $121,013 37 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* | $1,879 99 | $66,230 25 | $121,013 37 |
| Teaming: | | | |
| Wm. Condon | 323 75 | | |
| John Coughlin | 363 75 | | |
| Frank Coulter | 355 00 | | |
| Elizabeth Cox | 347 50 | | |
| James Culhane | 358 75 | | |
| Patrick J. Curley | 198 75 | | |
| Daniel Cosgrove | 207 50 | | |
| Jane Cosgrove | 118 75 | | |
| J. T. Culhane | 363 75 | | |
| Patrick Dardis | 447 50 | | |
| John Doody | 85 00 | | |
| John A. Egan | 370 00 | | |
| Joseph Finnick | 390 00 | | |
| John J. Fitzgerald | 107 50 | | |
| John Gallivan | 450 00 | | |
| James Gray | 418 75 | | |
| William Hart | 365 00 | | |
| Mrs. Henry Hermanns | 227 50 | | |
| Martin Kneeland | 88 75 | | |
| Michael F. Lamb | 356 25 | | |
| Edward Lynch | 538 75 | | |
| Charles Linehan | 341 25 | | |
| Chas. H. Linehan | 245 00 | | |
| Elizabeth Martell | 447 50 | | |
| John McClellan | 153 75 | | |
| Jere McCrehan | 462 50 | | |
| Chas. McMahon | 360 00 | | |
| Patrick McNamara | 365 00 | | |
| Thomas McSorley | 368 75 | | |
| M. F. Murphy | 360 00 | | |
| David O'Mara | 251 25 | | |
| Michael O'Neil | 265 00 | | |
| Michael O'Sullivan | 342 50 | | |
| Thomas O'Hara | 15 00 | | |
| Timothy O'Keefe | 237 50 | | |
| Thomas H. O'Hara | 371 25 | | |
| Jere O'Keefe | 80 00 | | |
| *Am'ts carried forward* | $13,028 74 | $66,230 25 | $121,013 37 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* | $13,028 74 | $66,230 25 | $121,013 37 |
| Teaming: | | | |
| John Quin | 376 25 | | |
| A. T. Ross | 5 00 | | |
| John M. Riley | 462 50 | | |
| B. F. St. George | 327 50 | | |
| Jere Sullivan | 407 50 | | |
| Peter Tumilty | 60 00 | | |
| Joseph F. White | 12 50 | | |
| | | 14,679 99 | |
| Book case, Phillips Bros. & Co. | | 35 00 | |
| Bricks, William C. Norcross | | 79 20 | |
| Brooms, Henry Hermanns | | 15 90 | |
| Canvas covers, James Martin & Sons | | 33 63 | |
| Carpentry: | | | |
| Ira G. Hersey | $45 85 | | |
| J. H. Keenan | 29 30 | | |
| | | 75 15 | |
| Carriage hire for committee: | | | |
| F. D. Bartlett | $3 00 | | |
| Irving Blake | 3 00 | | |
| J. Callahan | 44 00 | | |
| Chas. W. Dailey | 3 00 | | |
| J. E. Fabyan | 26 00 | | |
| Lake & Moynahan | 22 50 | | |
| J. O. Whitten | 6 00 | | |
| | | 107 50 | |
| Carriages and repairs: | | | |
| F. Ivers & Son | $52 50 | | |
| Chas. Waugh & Co. | 206 38 | | |
| A. M. Wood Co. | 218 55 | | |
| | | 477 43 | |
| Car tickets, West End St. Railway Co. | | 25 00 | |
| Cash for sundries, E. H. Reed | | 28 15 | |
| Directories: | | | |
| W. A. Greenough | $2 50 | | |
| Sampson, Murdock & Co. | 5 00 | | |
| | | 7 50 | |
| Expressage, Savage & Son | | 2 00 | |
| Fence, Brock Bros. | | 96 00 | |
| *Amounts carried forward* | | $81,892 70 | $121,013 37 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $81,892 70 | $121,013 37 |
| Fuel: | | | |
| L. G. Burnham & Co. | $60 00 | | |
| Camb. Gas Lt. Co. . | 5 40 | | |
| Coleman Bros. . . | 32 00 | | |
| H. G. Jordan & Co. . | 1,039 76 | | |
| S. F. Rowe . . | 7 50 | | |
| H. Wellington & Co. | 21 25 | | |
| Wellington & Buck . | 10 50 | | |
| | | 1,176 41 | |
| Gas, Camb. Gas Lt. Co. . . . | | 264 97 | |
| Gas-fittings, Moynahan & Co. . . | | 8 01 | |
| Hardware, tools and repairs: | | | |
| Ames Plow Co. . . | $558 96 | | |
| Patrick Collins . . | 75 50 | | |
| Dodge, Haley & Co. . | 405 29 | | |
| Edison Mfg. Co. . | 461 71 | | |
| The Fairbanks Co. . | 11 25 | | |
| Wm. H. Gallison . | 15 30 | | |
| Moynahan & Co. . | 22 56 | | |
| Magee Furnace Co. . | 50 00 | | |
| Geo. O. Robbins . | 80 67 | | |
| Daniel J. Sullivan . | 29 10 | | |
| G. W. Tibbetts . . | 17 00 | | |
| F. A. White . . | 28 66 | | |
| Whittier Hardware Co. | 60 97 | | |
| Sundry Persons . | 15 38 | | |
| | | 1,832 35 | |
| Harness and repairs: | | | |
| Jas. Forgie & Son . | $155 61 | | |
| Hugh McCaffrey . | 385 06 | | |
| J. F. Nolan . . | 80 50 | | |
| | | 621 17 | |
| Hay, grain and straw: | | | |
| A. W. Goodnow . | $574 51 | | |
| Lord & Webster . | 7,679 25 | | |
| Geo. G. Wright . | 23 24 | | |
| Wade & Reed Co. . | 940 00 | | |
| | | 9,217 00 | |
| *Amounts carried forward* . . | | $95,012 61 | $121,013 37 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $95,012 61 | $121,013 37 |
| Horses: | | | |
| Cooper Bros. . . | $575 00 | | |
| P. H. Dardis . . | 575 00 | | |
| Russell & Drew . | 500 00 | | |
| | | 1,650 00 | |
| Horse clipping, James Bolger . . | | 5 00 | |
| Horse medicine, drugs, etc.: | | | |
| Capitol Mfg. Co. . | $12 00 | | |
| Rust & Richardson Drug Co. . . | 107 60 | | |
| Henry Thayer & Co. . | 43 98 | | |
| | | 163 58 | |
| Horse shoeing: | | | |
| Wm. Balmer . . | $112 85 | | |
| A. M. Cofran & Co. . | 2 58 | | |
| | | 115 43 | |
| Lumber and cement: | | | |
| Geo. W. Gale Lumber Co. | $257 69 | | |
| N. N. Stickney . . | 181 14 | | |
| Henry J. Winde . | 113 25 | | |
| Wm. H. Woods & Co. | 25 22 | | |
| | | 577 30 | |
| Lights and installing lamps: | | | |
| Camb. Electric Light Co. . . | | 195 90 | |
| Machine, engine and iron work: | | | |
| Barbour, Stockwell & Co. . . . | $15 60 | | |
| Wm. Campbell & Co. | 17 72 | | |
| Farrell Foundry and Machine Co. . . | 230 27 | | |
| Thomas Gannon . | 2 50 | | |
| Wm. H. Gallison . | 9 59 | | |
| Miller & Shaw . . | 471 83 | | |
| Moynahan & Co. . | 47 40 | | |
| Geo. O. Rollins . . | 25 75 | | |
| Roberts Iron Works . | 15 44 | | |
| Scrannage Bros. . | 1 50 | | |
| Geo. W. Tibbetts . | 466 00 | | |
| | | 1,303 60 | |
| *Amounts carried forward* . . . | | $99,023 42 | $121,013 37 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $99,023 42 | $121,013 37 |
| Oatmeal, Geo. H. Cheever . . . | | 38 90 | |
| Packing, belting and rubber goods: | | | |
| American Rubber Co. | $9 58 | | |
| Boston Woven Hose and Rubber Co. . | 25 00 | | |
| Frank E. Fitts . . | 38 43 | | |
| Gould Packing Co. . | 10 20 | | |
| | | 83 21 | |
| Paint, varnish, oil, etc.: | | | |
| E. W. Bigelow & Co. | $113 17 | | |
| Maverick Oil Co. . | 8 63 | | |
| Olney Bros. . . | 28 60 | | |
| E. Tucker . . | 35 75 | | |
| Wadsworth, Howland & Co. . . . | 45 76 | | |
| | | 231 91 | |
| Pipe and cement: | | | |
| D. W. Lewis . . | $66 90 | | |
| Portland Stone Ware Co. . . . | 9 75 | | |
| | | 76 65 | |
| Professional services: | | | |
| Dr. J. M. Crocker . | $5 00 | | |
| Dr. C. H. Thomas . | 10 00 | | |
| | | 15 00 | |
| Plumbing: | | | |
| Brock Bros. . . | $1 27 | | |
| Moynahan & Co. . | 45 35 | | |
| | | 46 62 | |
| Rent of wharf, Camb. Gas Light Co. . | | 275 00 | |
| Stationery, printing and postage: | | | |
| James H. Cox . . | $74 65 | | |
| Cotton & Gould . | 19 53 | | |
| Cashman, Keating & Co. . . . | 6 50 | | |
| Harvard Printing Co. | 8 55 | | |
| G. W. Ring . . | 6 00 | | |
| Stationery Dept. . | 43 88 | | |
| Winkley, Dresser & Co. . . . | 6 30 | | |
| | | 165 41 | |
| *Amounts carried forward* . . . | | $99,956 12 | $121,018 37 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $99,956 12 | $121,013 37 |
| Stamps, L. W. Poole | | 12 50 | |
| Stone: | | | |
| (Cracked) Frank W. Mead | $11,939 16 | | |
| (Field) Sundry persons, as per pay rolls | 8,392 08 | | |
| | | 20,331 24 | |
| Street signs and lettering: | | | |
| Clifford Hunting | $1 88 | | |
| E. Tucker | 41 75 | | |
| | | 43 63 | |
| Sundry supplies | | 33 51 | |
| Telephone rent and tolls, N. E. Tel. Co. | | 72 30 | |
| Typewriter and desk: | | | |
| W. M. Belcher & Co. | | 130 00 | |
| Use of wagon, R. T. Ross | | 5 00 | |
| Total | | | 120,584 30 |
| Balance unexpended | | | $429 07 |

## Water Works (Construction).

| | |
|---|---|
| Appropriation | $70,000 00 |
| Additional appropriation | 25,000 00 |
| Revenue appropriated | 9,760 00 |
| | $104,760 00 |

RECEIVED.

| | | |
|---|---|---|
| For sale of buildings, machinery, etc. | $7,200 00 | |
| Premium on bonds sold | 2,560 00 | |
| | $9,760 00 | |

EXPENDED.

| | | | |
|---|---|---|---|
| For labor, as per pay rolls | | $37,279 84 | |
| Advertising: | | | |
| Boston Daily Advertiser | $14 00 | | |
| Boston Herald | 20 70 | | |
| Cambridge Press | 14 06 | | |
| *Amounts carried forward* | $48 76 | $37,279 84 | $104,760 00 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* . | $48 76 | $37,279 84 | $104,760 00 |
| Advertising: | | | |
| Cambridge Tribune . . | 15 00 | | |
| Engineering Record . . | 10 00 | | |
| Globe Newspaper Co. . | 16 96 | | |
| Journal Newspaper Co. . | 35 00 | | |
| | | 125 72 | |
| Bricks, Wm. C. Norcross . . . | | 9 00 | |
| Carpentry: | | | |
| J. H. Keenan . . . | $33 14 | | |
| Kelley & McKinnon . . | 314 47 | | |
| | | 347 61 | |
| Carriage hire, Samuel Giddings . . | | 4 00 | |
| Cash expended for sundries: | | | |
| L. M. Hastings . . . | $4 96 | | |
| Hiram Nevons . . . | 18 15 | | |
| | | 23 11 | |
| Castings, fittings, hydrants, etc.: | | | |
| Barbour, Stockwell & Co. . | $438 29 | | |
| Builders' Iron Foundry . | 215 62 | | |
| Chapman Valve Mfg. Co. . | 3,087 38 | | |
| Davis & Farnum Mfg. Co. . | 1,392 32 | | |
| Anthony P. Smith . . | 749 00 | | |
| The Geo. Woodman Co. . | 429 00 | | |
| Sundry persons . . . | 30 75 | | |
| | | 6,342 36 | |
| Coal tar, Cambridge Gas Light Co. . | | 30 75 | |
| Contract, Syphon at First St. Bridge: | | | |
| Leavitt, Dailey & Crockett . . | | 350 00 | |
| Drain work, Samuel McCulloch . . | | 31 30 | |
| Dredging, N. E. Dredging Co. . . | | 310 00 | |
| Fountains, J. L. Mott Iron Works . . | | 115 00 | |
| Fuel . . . . . | | 17 20 | |
| Labor . . . . . | | 11 00 | |
| Lead: | | | |
| Boston Lead Mfg. Co. . | $398 09 | | |
| Chadwick Lead Works . | 1,353 34 | | |
| | | 1,751 43 | |
| Lumber: | | | |
| Geo. W. Gale Lumber Co. . | $190 46 | | |
| E. D. Sawyer & Co. . . | 146 50 | | |
| | | 336 96 | |
| *Amounts carried forward* . . | | $47,085 28 | $104,760 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $47,085 28 | $104,760 00 |
| Lunch: | | | |
| M. R. Jones . . . | $18 75 | | |
| S. White . . . . | 1 95 | | |
| | | 20 70 | |
| Mason work: | | | |
| F. J. O'Reilley . . . | $37 85 | | |
| M. R. Stearns . . . | 72 17 | | |
| | | 110 02 | |
| Materials and labor for house: | | | |
| Chas. J. Foskett . . . . | | 1,094 85 | |
| Meters: | | | |
| Geo. F. Blake Mfg. Co. . | $20 50 | | |
| Hersey Mfg. Co. . . | 647 00 | | |
| Union Water Meter Co. . | 653 00 | | |
| Henry R. Worthington . | 524 05 | | |
| | | 1,844 55 | |
| Packing: | | | |
| S. C. Nightingale & Childs | $25 10 | | |
| Perrin, Seamans & Co. . | 23 82 | | |
| | | 48 92 | |
| Paving, H. T. Soper . . . . | | 315 93 | |
| Pipe: | | | |
| Donaldson Iron Co. . | $16,440 16 | | |
| Hudson Pipe Co. . . | 512 88 | | |
| Portland Stone Ware Co. . | 109 07 | | |
| | | 17,062 11 | |
| Piles: | | | |
| John P. Perkins & Son . | $120 00 | | |
| John T. Scully . . . | 74 13 | | |
| | | 194 13 | |
| Printing and binding: | | | |
| American Bank Note Co. . | $90 00 | | |
| James Cox . . . | 16 75 | | |
| Harvard Printing Co. . | 21 50 | | |
| J. H. H. McNamee . . | 8 50 | | |
| | | 136 75 | |
| Services of Diver, Geo. W. Townsend . | | 92 00 | |
| Sundries . . . . . | | 13 20 | |
| Timbering track: | | | |
| Boston & Maine R. R. Co. . . | | 16 00 | |
| Tolls, N. E. Telephone Co. . . . | | 5 60 | |
| *Amounts carried forward* . . | | $68,040 04 | $104,760 00 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $68,040 04 | $104,760 00 |
| Use of locomotive, cars, and side track: | | | |
| Fitchburg R. R. Co. . | $5,903 81 | | |
| Expenses of Foreman . | 246 62 | | |
| Labor . . . . . | 252 12 | | |
| | | 6,402 55 | |
| Use of pump, E. R. Cheney . . . | | 58 50 | |
| Use of scow, Huskins & Rendle . . | | 30 00 | |
| Teaming: | | | |
| James Boyle . . . | $388 75 | | |
| J. Brassil . . . . | 306 25 | | |
| T. A. Callaghan . . . | 335 00 | | |
| Chas. Conlan . . . | 645 75 | | |
| Patrick Curley . . . | 966 25 | | |
| P. H. Dardis . . . | 618 75 | | |
| John Doody . . . | 162 50 | | |
| John Gallivan . . . | 152 50 | | |
| David Landergan . . | 454 50 | | |
| John McClellan . . . | 237 50 | | |
| Martin McDonald . . | 340 50 | | |
| J. W. O'Connor . . | 303 75 | | |
| Thos. H. O'Hara . . | 376 25 | | |
| John Riley . . . | 508 75 | | |
| Peter Tumilty . . . | 969 00 | | |
| Sundry persons . . | 98 38 | | |
| | | 6,864 38 | |
| Total . . . . . | | | 81,395 47 |
| Balance unexpended . . . | | | $23,364 53 |

**Water Works, Construction (Fresh Pond Land Account).**

| | |
|---|---|
| Appropriation . . . . . | $125,000 00 |
| Revenue . . . . . | 5,712 50 |
| | $130,712 50 |

RECEIVED.

| | |
|---|---|
| For premium on bonds sold | $5,712 50 |
| *Amount carried forward* . . . | $130,712 50 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . | | | $130,712 50 |
| EXPENDED. | | | |
| For advertising: | | | |
| Boston Daily Advertiser . . . | | $18 90 | |
| Building, Albion Ryan . . . | | 1,602 60 | |
| Carriage hire, M. J. Fairbanks . . | | 5 00 | |
| Cash expended for sundries: | | | |
| C. J. McIntire . . . . . | | 9 70 | |
| Contract, Abutments of Huron St. Bridge, Rowe & Hall . . . | | 3,154 88 | |
| Land and damage: | | | |
| Boston Ice Co. . . | $88,952 55 | | |
| Robert E. Demmon . | 8,500 00 | | |
| Joseph Smith . . | 4,114 70 | | |
| | | 101,567 25 | |
| Legal services, Law Dept.. . . | | 750 00 | |
| Printing bonds: | | | |
| American Bank Note Co. . . | | 90 00 | |
| Reporting testimony, Rogers & Jones . | | 163 98 | |
| Services as commissioner, J. Lowell . | | 125 00 | |
| Services of experts: | | | |
| James Beatty . . | $10 00 | | |
| John McSorley . . | 100 00 | | |
| Peter Neligan . . | 40 00 | | |
| John P. Prichard . . | 15 00 | | |
| John T. Scully . . | 50 00 | | |
| | | 215 00 | |
| Total . . . . . | | | 107,702 31 |
| Balance unexpended . . . | | | $23,010 19 |

**Water Works, Construction (Stony Brook Account).**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $75,000 00 |
| Revenue . . . . . | | | 4,983 35 |
| | | | $79,983 35 |
| RECEIVED. | | | |
| From G. F. Haynes, Attorney for Sibley et al., for one-half of expense of reporting and furnishing three copies of testimony . . . . . | | $415 85 | |
| Premium on bonds sold . . . | | 4,567 50 | |
| *Amount carried forward* . . | | $4,983 35 | $79,983 35 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . | | | $79,983 35 |
| EXPENDED. | | | |
| For carriage hire, W. J. Richardson . | | $18 00 | |
| Commissioner, Joseph Willard . . | | 45 00 | |
| Executions in Damage Cases : | | | |
| Ætna Mills . . . | $3,248 98 | | |
| Boston Mfg. Co. . . | 12,859 99 | | |
| Hollingsworth & Whitney Co. . . . | 1,113 05 | | |
| H. T. & W. H. Perkins | 1,113 05 | | |
| Willard E. Sibley Admr. & Andrew Fiske, Tr.. | 50,612 50 | | |
| The Walker Pratt Mfg. Co. . . . . | 1,113 05 | | |
| | | 70,060 62 | |
| Legal services, Law Dept. . . | | 750 00 | |
| Reporting testimony, Rogers & Jones . | | 208 95 | |
| Services and expenses of experts : | | | |
| Henry W. Britters . | $100 00 | | |
| John Everett . . | 100 00 | | |
| R. A. Hale . . . | 200 85 | | |
| R. A. Jones . . . | 20 00 | | |
| Chas. T. Main . . | 103 90 | | |
| Samuel Patch . . | 10 00 | | |
| Geo. D. Soule . . | 100 00 | | |
| D. W. Williams . . | 10 00 | | |
| | | 644 75 | |
| Total . . . . . | | | 71,727 32 |
| Balance unexpended . . . | | | $8,256 03 |

**Interest on Water Loan.**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $93,225 00 |
| Revenue appropriated . . . . | | | 925 01 |
| | | | $94,150 01 |
| RECEIVED. | | | |
| For Accrued Interest on bonds . . | | $925 01 | |
| *Amount carried forward* . . . | | | $94,150 01 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . | | | $94,150 01 |
| EXPENDED. | | | |
| For Interest on Water Loan : | | | |
| Coupon bonds . . | $56,095 00 | | |
| Registered bonds . . | 32,070 00 | | |
| Total . . . . . | | $88,165 00 | |
| Balance unexpended . . . | | | $5,985 01 |

**Water Works, Maintenance.**

| | | | |
|---|---|---|---|
| Appropriation . . . . . | | | $45,000 00 |
| Additional Appropriation . . . | | | 1,733 13 |
| | | | $46,733 13 |
| RECEIVED. | | | |
| For Collections . . . . . | | $144 10 | |
| Gravel . . . . . | | 269 40 | |
| | | $413 50 | |
| EXPENDED. | | | |
| For salaries of | | | |
| Supt., Hiram Nevons . | $2,362 50 | | |
| Asst. Supt., John L. Harrington . . . | 1,312 50 | | |
| Engineer, E. C. Brooks . | 1,511 43 | | |
| Asst. Engineer, William Blaisdell . . . | 1,051 43 | | |
| Registrar and Clerk, W. H. Harding . . | 2,100 00 | | |
| Office Clerk, Harry L. Lincoln . . . | 918 75 | | |
| Clerk, Hattie F. Milligan | 486 00 | | |
| Treas. of Sinking Funds of Water Works, W. W. Dallinger . . | 200 00 | | |
| Inspector, F. G. Davis . | 799 09 | | |
| Mechanic, B. P. Doe . | 788 57 | | |
| Foreman, Patrick Conlan | 768 64 | | |
| Gateman, Silas Baxter . | 604 57 | | |
| Laborers, as per pay rolls | 13,932 87 | | |
| | | 26,836 35 | |
| *Amounts carried forward* . . | | $26,836 35 | $46,733 13 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* | | $26,836 35 | $46,733 13 |
| Advertising | | 27 87 | |
| Bricks: | | | |
| N. M. Cofran & Co. | $18 00 | | |
| D. W. Lewis | 7 50 | | |
| Wm. C. Norcross | 9 00 | | |
| Parry Bros. and Co. | 45 00 | | |
| | | 79 50 | |
| Carpentry: | | | |
| Kelley & McKinnon | $374 90 | | |
| W. H. Norris | 198 51 | | |
| Sundry Persons | 13 35 | | |
| | | 586 76 | |
| Carriage hire: | | | |
| C. W. Dailey | $10 00 | | |
| J. E. Fabyan | 16 00 | | |
| M. J. Fairbanks | 25 50 | | |
| H. K. Parsons & Co. | 10 00 | | |
| W. J. Richardson | 50 00 | | |
| J. O. Whitten | 11 50 | | |
| | | 123 00 | |
| Carriage and wagon repairs: | | | |
| F. L. Chapman & Co. | $18 00 | | |
| Thomas Evans | 15 60 | | |
| A. J. Jones | 62 83 | | |
| Stewart Bros. | 83 52 | | |
| Hugh Stewart & Co. | 117 15 | | |
| Chas. Waugh & Co | 31 50 | | |
| | | 328 60 | |
| Car tickets: | | | |
| W. E. St. Railway Co. | $225 00 | | |
| Fitchburg R. R. Co. | 12 00 | | |
| | | 237 00 | |
| Cast iron cap lightning rods: | | | |
| Frank J. O'Reilley | | 558 00 | |
| Cash expended, Hiram Nevons | | 28 86 | |
| Cleaning vaults, W. B. Mullen | | 8 85 | |
| Clock, John G. Moulton | | 16 00 | |
| Copper waste, S. C. Nightingale & Childs | | 11 50 | |
| Damage to stable, Wm. Read | | 25 00 | |
| Dictionary, Thos. A. Corcoran | | 8 75 | |
| *Amounts carried forward* | | $28,876 04 | $46,733 13 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . . | | $28,876 04 | $46,733 13 |
| Directories . . . . . | | 7 50 | |
| Drawings, W. W. White & Co. . . | | 10 00 | |
| Electrical supplies: | | | |
| Pettengell, Andrews & Co. . . | | 22 93 | |
| Expressage: | | | |
| Butland & Son . . | $0 25 | | |
| Hatch & Co. . . . | 12 75 | | |
| Savage & Son . . | 99 41 | | |
| | | 112 41 | |
| Expense of entertaining City Government at annual inspection of Water Works, June 30, 1892 . . . | | 323 23 | |
| Expenses of Water Board at inspections | | 167 45 | |
| Fuel: | | | |
| Coleman Bros. . . | $51 75 | | |
| G. F. Frost . . . | 29 58 | | |
| Richardson & Bacon . | 4,391 46 | | |
| | | 4,472 79 | |
| Gas, Cambridge Gas Light Co. . . | | 28 09 | |
| Grass seed, etc.: | | | |
| Jos. Breck & Sons . . | $1 40 | | |
| R. & J. Farquhar & Co.. | 22 50 | | |
| | | 23 90 | |
| Gravel, Peter Tumilty . . . . | | 13 50 | |
| Hardware, tools, machinery and repairs: | | | |
| Ames Plow Co. . . | $221 25 | | |
| Barbour, Stockwell & Co. | 110 33 | | |
| Burditt & Bynner . . | 559 27 | | |
| Wm. Campbell & Co. . | 71 50 | | |
| Chas. Carr . . . | 215 75 | | |
| Chapman Valve Mfg. Co. | 17 37 | | |
| Dalton, Ingersoll & Co. . | 28 40 | | |
| Davis & Farnum Mfg. Co. | 45 00 | | |
| Chas. H. Goldsmith . | 9 90 | | |
| James Maitland . . | 524 80 | | |
| Perrin, Seamans & Co. . | 65 00 | | |
| Walworth Mfg. Co. . | 148 12 | | |
| F. A. White . . . | 43 41 | | |
| *Amounts carried forward* | $2,060 10 | $34,057 84 | $46,733 13 |

| | | | |
|---|---|---|---|
| *Am'ts brought forward* . | $2,060 00 | $34,057 84 | $46,733 13 |
| Machinery, etc.: | | | |
| Geo. Woodman Co. . | 34 09 | | |
| Sundry persons . . | 3 30 | | |
| | | 2,097 49 | |
| Harness and repairs, M. Cavanagh . | | 114 60 | |
| Hay, grain and straw, J. Cushing & Co. | | 507 13 | |
| Horse, Russell & Drew . . . . | | 150 00 | |
| Horse-clipping, John Smith . . . | | 3 00 | |
| Horse-shoeing: | | | |
| Wm. Bell . . . | $10 50 | | |
| Wm. F. Garrett & Co. . | 27 13 | | |
| John F. Gurry . . | 40 11 | | |
| Thomas Smith . . | 89 31 | | |
| | | 167 05 | |
| Hose and rubber goods: | | | |
| Boston Woven Hose and Rubber Co. | | 82 77 | |
| Ice, Fresh Pond Ice Co. . . . | | 27 75 | |
| Iron work, Miller & Shaw . . . | | 58 26 | |
| Labor, sundry persons . . . | | 19 00 | |
| Ladders, C. W. H. Moulton & Co. . | | 15 85 | |
| Lumber: | | | |
| Geo. W. Gale Lumber Co. | $718 98 | | |
| Wm. H. Wood & Co. . | 22 13 | | |
| Sundry persons . . | 15 89 | | |
| | | 757 00 | |
| Mason work: | | | |
| Frank J. O'Reilley . . | $575 38 | | |
| M. N. Stearns . . | 60 67 | | |
| | | 636 05 | |
| Manure: | | | |
| Jeremiah Glynn . . | $32 79 | | |
| W. E. Kingsbury . . | 12 00 | | |
| John Martin . . . | 21 00 | | |
| Nicholas Roach . . | 12 00 | | |
| | | 77 79 | |
| Meters and repairs: | | | |
| National Meter Co. . | $11 00 | | |
| Thomson Meter Co. . | 8 00 | | |
| Union Water Meter Co. | 27 30 | | |
| H. R. Worthington . | 44 09 | | |
| | | 90 39 | |
| *Amounts carried forward* . . | | $38,861 97 | $46,733 13 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . . | | $38,861 97 | $46,733 13 |
| Moving buildings, Angus & Mills . . | | 135 00 | |
| Newspapers . . . . . | | 18 50 | |
| Oil: | | | |
| E. W. Bigelow & Co. . | $150 75 | | |
| Maverick Oil Co. . . | 8 26 | | |
| A. N. Reynolds & Co. . | 17 85 | | |
| Standard Oil Co. . . | 3 50 | | |
| | | 180 36 | |
| Packing: | | | |
| Samuel Kidder . . | $36 96 | | |
| S.C. Nightingale & Childs | 24 91 | | |
| Sundry persons . . | 22 64 | | |
| | | 84 51 | |
| Painting and glazing: | | | |
| J. L. P. Ackers . . | $177 44 | | |
| Chas. A. Sawyer . . | 102 65 | | |
| | | 280 09 | |
| Paving: | | | |
| H. Gore & Co. . . | $10 00 | | |
| H. T. Soper . . . | 33 68 | | |
| | | 43 68 | |
| Pipe and fittings: | | | |
| Boston Lead Mfg. Co. . | $16 02 | | |
| Chadwick Lead Works . | 44 57 | | |
| D. W. Lewis . . . | 38 90 | | |
| Smith & Anthony . . | 25 98 | | |
| Walworth Mfg. Co. . | 89 42 | | |
| T. F. Welch & Co. . | 23 70 | | |
| The Geo. Woodman Co. | 210 07 | | |
| | | 448 66 | |
| Postage: | | | |
| W. W. Dallinger . . | $2 00 | | |
| Winkley, Dresser & Co. | 56 00 | | |
| | | 58 00 | |
| Plans and specifications, J. H. Webber | | 25 00 | |
| Plumbing: | | | |
| Levi Hawkes & Co. . | $36 74 | | |
| S. C. Higgins . . . | 18 38 | | |
| Daniel Russell . . | 93 98 | | |
| Sundry persons . . | 9 24 | | |
| | | 158 34 | |
| *Amounts carried forward* | | $40,294 11 | $46,733 13 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $40,294 11 | $46,733 13 |
| Rain Gauge, J. S. F. Huddleston . . | | 7 00 | |
| Rent of offices and shop: | | | |
| Public Property Dept. . . . | | 2,000 00 | |
| Repairing iron fence, P. J. Dinn . . | | 22 40 | |
| Repairing pipe box, Camb. Gas Light Co. | | 88 13 | |
| Screens, etc.: | | | |
| W. W. Pratt . . . | $6 00 | | |
| A. F. Roberts . . | 8 00 | | |
| | ——— | 14 00 | |
| Screening, F. W. Mead . . . | | 40 00 | |
| Stationery and printing: | | | |
| Cotton & Gould . . | $31 25 | | |
| Jas. H. Cox . . . | 34 00 | | |
| John Ford & Son . . | 66 25 | | |
| Harvard Printing Co. . | 23 32 | | |
| Winkley, Dresser & Co. . | 71 11 | | |
| | ——— | 225 93 | |
| Storage, Edw. W. Hincks . . . | | 80 00 | |
| Sundry repairs . . . . . | | 28 62 | |
| Sundry supplies: | | | |
| H. M. Grant . . . | $39 29 | | |
| J. A. Holmes & Co. . | 63 52 | | |
| Sundry persons . . | 37 32 | | |
| | ——— | 140 13 | |
| Teaming: | | | |
| Patrick Curley . . | $12 50 | | |
| P. H. Dardis . . . | 60 00 | | |
| David Landergan . . | 6 00 | | |
| J. W. O'Connor . . | 43 50 | | |
| Peter Tumilty . . | 598 25 | | |
| | ——— | 720 25 | |
| Telephone rent and tolls, N. E. Tel. Co. | | 477 15 | |
| Transportation, Fitchburg R. R. Co. . | | 24 90 | |
| Tool house, Colin Chisholm . . . | | 2,381 01 | |
| Use of horse and wagon: | | | |
| F. D. Bartlett . . | $177 50 | | |
| J. O. Whitten . . | 5 00 | | |
| | ——— | 182 50 | |
| Use of barge, Elliott & Dewey . . | | 7 00 | |
| | | ——— | |
| Total . . . . . | | | $46,733 13 |

## Water Works, Rates, Fines, etc.

RECEIVED.

| | | |
|---|---|---|
| From sundry persons for water rates, fines, etc. | | $243,474 81 |

EXPENDED.

| | | |
|---|---|---|
| For the construction and maintenance of sundry streets in the Belmont District | $10,000 00 | |
| Construction of Water Works | 4,909 01 | |
| Maintenance of Water Works | 46,319 63 | |
| Interest on Water Debt | 87,239 99 | |
| Sinking Fund Requirements | 90,218 94 | |
| Abatements of Rates, Fines, etc. | 3,003 35 | |
| Refunds | 1,485 42 | |
| Supplies | 298 47 | |
| | | $243,474 81 |

## Water Works, Rates, Fines, etc. (Abatements).

| | |
|---|---|
| Appropriation | $3,000 00 |
| Additional appropriation | 3 35 |
| | $3,003 35 |

EXPENDED.

| | |
|---|---|
| For abatements allowed on water rates to sundry persons | 3,003 35 |

## Water Works, Rates, Fines, etc. (Refunds).

| | |
|---|---|
| Appropriation | $2,000 00 |

EXPENDED.

| | |
|---|---|
| For water rates refunded to sundry persons | 1,485 42 |
| Balance unexpended | $514 58 |

### Water Works, Sinking Funds.

| | | | |
|---|---|---|---|
| Appropriation | | | $62,197 50 |
| Surplus receipts of Water Works | | | 28,021 44 |
| | | | $90,218 94 |
| EXPENDED. | | | |
| For rent of box, Cambridge Safety Vaults | | $20 00 | |
| Amount paid Trustees of Water Loan Sinking Fund: | | | |
| Appropriation for 1892 | $62,177 50 | | |
| Surplus receipts for 1892 | 28,021 44 | | |
| | | 90,198 94 | |
| | | | $90,218 94 |

### Water Works, Supplies.

| | | | |
|---|---|---|---|
| Appropriations | | | $7,000 00 |
| Additional appropriation | | | 300 86 |
| | | | $7,300 86 |
| RECEIVED. | | | |
| From sundry persons for supply pipes, etc. | | $7,043 37 | |
| EXPENDED. | | | |
| For labor, as per pay rolls | | 2,882 50 | |
| Cutting stone, Hugh Doherty | | 6 75 | |
| Pipe and fittings: | | | |
| Barbour, Stockwell & Co. | | 18 00 | |
| Chapman Valve Mfg. Co. | | 892 86 | |
| Walworth Mfg. Co. | | 192 84 | |
| The Geo. Woodman Co. | | 3,307 91 | |
| Total | | | $7,300 86 |

### Water Works, Supplies (Abatements).

| | |
|---|---|
| Appropriation | $100 00 |
| EXPENDED. | |
| For abatements allowed on supplies to sundry persons | 40 98 |
| Balance unexpended | 59 02 |

## CAMBRIDGE WATER WORKS

## IN ACCOUNT WITH THE CITY OF CAMBRIDGE,

For the Year Ending November 30, 1892.

**Receipts and Expenditures:**

| | | | |
|---|---|---|---|
| Balance in the City Treasury to the credit of Water Works, Nov. 30, 1891 | $3,919 68 | Expended on General Construction Account | $81,395 47 |
| Received from sale of bonds: | | Fresh Pond Account | 107,702 31 |
| General Construction Account | 70,000 00 | Stony Brook Account | 71,727 32 |
| Fresh Pond Land Account | 125,000 00 | Interest on Debt Account | 88,165 00 |
| Stony Brook Account | 75,000 00 | Maintenance Account | 46,733 13 |
| Premiums, accrued interest, etc. | 13,765 01 | Rates, Fines, Abatements Account | 3,003 35 |
| Sale of Buildings, Machinery, etc. | 7,200 00 | Rates, Fines, Refunds Account | 1,485 42 |
| Other Revenues | 415 85 | Sinking Funds Account | 90,218 94 |
| Revenue of Maintenance Account | 413 50 | Supply Account | 7,300 86 |
| Revenue from water rates, fines, etc. | 243,474 81 | Supply Abatements Account | 40 98 |
| Revenue from supplies | 7,043 37 | Transferred to Street Department | 10,000 00 |
| | | *Balance carried forward, | 38,459 44 |
| | $546,232 22 | | $546,232 22 |

* The balance carried forward is credited to the following accounts, viz.:

| | |
|---|---|
| Fresh Pond Land Account | $34,604 74 |
| Stony Brook Account | 3,854 70 |
| | $38,459 44 |

## Recapitulation.

| CITY DEPARTMENT ACCOUNTS. | RECEIPTS. | TOTAL APPROPRIATIONS. | EXPENDED TO DATE. | BALANCES UNEXPENDED. |
|---|---|---|---|---|
| Assessor's Department | | $10,665 86 | $10,665 86 | |
| Auditor's Department | | 3,200 00 | 3,167 32 | $32 68 |
| Bridges: | | | | |
| Harvard | | 8,458 84 | 8,276 73 | 182 11 |
| West Boston, Craigie and Prison Point | $470 44 | 8,770 44 | 8,174 66 | 595 78 |
| Cambridge Cemetery | 19,517 33 | 19,517 33 | 16,791 09 | 2,726 24 |
| Cambridge Public Library | 4,149 88 | 14,000 00 | 13,638 57 | 361 43 |
| City Clerk's Department | 2,708 79 | 6,408 79 | 5,996 68 | 412 11 |
| City Messenger's Department | | 2,600 00 | 2,518 16 | 81 84 |
| City Treasurer's Department | 1,457 58 | 12,500 00 | 11,680 62 | 819 38 |
| Civil Service Department | | 225 00 | 225 00 | |
| Clerk of Committees' Department | | 3,500 00 | 3,451 52 | 48 48 |
| Election Expenses: | | | | |
| City Clerk | | 4,811 21 | 4,811 21 | |
| Registrars of Voters | | 4,220 82 | 4,220 82 | |
| Superintendent of Public Buildings | | 1,525 46 | 1,525 46 | |
| Engineering Department | | 9,902 11 | 9,902 11 | |
| Executive Department | | 4,500 00 | 4,387 95 | 112 05 |
| Fire Department | 16 60 | 61,016 60 | 61,016 48 | 12 |
| Health Department | | 5,000 00 | 4,887 62 | 112 38 |
| Incidental Expenses | 6,042 60 | 7,418 17 | 7,212 36 | 205 81 |
| Inspection of Milk and Vinegar | 148 50 | 1,148 50 | 999 90 | 148 60 |
| Inspection of Wires | 199 18 | 12,774 18 | 12,548 58 | 225 60 |
| Interest | 6,342 35 | 135,842 35 | 134,036 63 | 1,805 72 |
| Law Department | 1,502 50 | 3,044 37 | 3,044 37 | |
| Lighting Streets | 6 50 | 65,006 50 | 63,862 68 | 1,143 82 |
| Overseers of the Poor: | | | | |
| Almshouse | 2,319 32 | 22,000 00 | 21,925 43 | 74 57 |
| Farm and Ledge | 10,592 16 | 8,000 00 | 7,730 90 | 269 10 |

| | | | | |
|---|---|---|---|---|
| House Offal | 7,535 57 | 22,376 43 | 22,376 43 | |
| Outside Aid | 3,743 97 | 35,743 97 | 34,838 13 | 905 84 |
| Assistant City Physician | | 1,500 00 | 1,500 00 | |
| Police Department | 5,336 00 | 107,925 00 | 104,547 24 | 3,377 76 |
| Public Property: | | | | |
| Care and Repair: | | | | |
| City Buildings | 2,915 74 | 21,121 23 | 21,121 23 | |
| School Houses | 14 74 | 48,129 39 | 48,129 39 | |
| Construction and Alteration: | | | | |
| Harvard School House, Fire Escapes | | 1,500 00 | | 1,500 00 |
| Morse School House, Grading | | 500 00 | | 500 00 |
| New Engine House, Ward 3 | 720 00 | 23,615 00 | 13,366 44 | 10,248 56 |
| New High School House | | 65,543 66 | 65,358 11 | 185 55 |
| Old High School House | | 16,500 00 | 16,496 23 | 3 77 |
| Old High School House, Furnishings and Fittings | | 1,900 00 | 1,899 12 | 88 |
| Wellington School House | | 20,500 00 | 8,550 00 | 11,950 00 |
| Incidentals | | 3,404 40 | 3,404 40 | |
| School Department: | | | | |
| Incidentals | | 900 00 | 895 07 | 4 93 |
| Salaries | 1,738 07 | 211,354 97 | 211,354 97 | |
| Text-Books, etc. | 300 00 | 12,850 00 | 12,420 34 | 429 66 |
| Sealer of Weights and Measures | 697 59 | 1,897 59 | 1,684 10 | 213 49 |
| Sewer Department: | | | | |
| Construction | 12,716 34 | 22,716 34 | 18,659 93 | 4,056 41 |
| Maintenance | 1,458 62 | 25,500 00 | 23,664 56 | 1,835 44 |
| Sinking Funds | | 91,770 00 | 91,770 00 | |
| State Aid | 13,732 50 | 25,262 30 | 25,262 30 | |
| Stationery and Printing | 575 63 | 2,875 63 | 2,677 87 | 197 76 |
| Street Department: | | | | |
| Bridges, Construction | | 11,100 00 | 9,700 48 | 1,399 52 |
| Bridges, Maintenance | 114 62 | 3,614 62 | 3,418 09 | 196 53 |
| Belmont District, Construction and Maintenance | 10,000 00 | 10,000 00 | 9,885 01 | 114 99 |
| Front Street, Filling and Grading | | 9,140 65 | 2,604 87 | 6,535 78 |
| *Amounts carried forward* | $117,073 12 | $1,235,297 71 | $1,182,283 02 | $53,014 69 |

**Recapitulation** — *Continued.*

| CITY DEPARTMENT ACCOUNTS. | Receipts. | Total Appropriations. | Expended to Date. | Balances Unexpended. |
|---|---|---|---|---|
| *Amounts brought forward* | $117,073 12 | $1,235,297 71 | $1,182,283 02 | $53,014 69 |
| Extensions and Widenings: | | | | |
| First Street | 2,500 00 | 19,500 00 | 19,153 19 | 346 81 |
| Huron Street | | 16,000 00 | 4,464 68 | 11,535 32 |
| Inman Street | | 1,142 00 | 1,000 00 | 142 00 |
| North Avenue | | 4,931 56 | 1,101 00 | 3,830 56 |
| Maintenance, including the Collection of Ashes | 3,215 58 | 121,013 37 | 120,584 30 | 429 07 |
| Paving: | | | | |
| Cambridge Street | | 12,000 00 | 10,520 11 | 1,479 89 |
| Central Square | | 6,000 00 | 4,584 52 | 1,415 48 |
| Edgestones and Sidewalks | 18,376 78 | 80,000 00 | 79,675 09 | 324 91 |
| Shade Trees and Public Grounds | 95 35 | 6,895 35 | 6,873 45 | 21 90 |
| Watering | 13,914 05 | 21,000 00 | 20,932 48 | 67 52 |
| | $155,174 88 | $1,523,779 99 | $1,451,171 84 | $72,608 15 |

| WATER DEPARTMENT ACCOUNTS. | Receipts. | Total Appropriations. | Expended to Date. | Balances Unexpended. |
|---|---|---|---|---|
| Water Works: | | | | |
| Construction | $9,760 00 | $104,760 00 | $81,395 47 | $23,364 53 |
| Construction (Fresh Pond Land Account) | 5,712 50 | 130,712 50 | 107,702 31 | 23,010 19 |
| Construction (Stony Brook Water Supply) | 4,983 35 | 79,983 35 | 71,727 32 | 8,256 03 |
| Interest | 925 01 | 94,150 01 | 88,165 00 | 5,985 01 |
| Maintenance | 413 50 | 46,733 13 | 46,733 13 | |
| Rates, Fines, etc. | 233,474 81 | | | |
| Rates, Fines, etc. (Abatements) | | 3,003 35 | 3,003 35 | |
| Rates, Fines, etc. (Refunds) | | 2,000 00 | 1,485 42 | 514 58 |
| Sinking Funds | | 90,218 94 | 90,218 94 | |
| Supplies | 7,043 37 | 7,300 86 | 7,300 86 | |
| Supplies (Abatements) | | 100 00 | 40 98 | 59 02 |
| | $262,312 54 | $558,962 14 | $497,772 78 | $61,189 36 |

**Schedule of Real Estate Owned by the City of Cambridge, as shown on the Assessors' Books, November 30, 1892.**

| | | | |
|---|---|---|---|
| Cambridge Cemetery: | | | |
| $60\frac{1}{10}$ acres of land . . . . | | $60,000 | |
| 2 houses . . . . . | | 12,500 | |
| | | | $72,500 |
| Cambridge Public Library: | | | |
| 135,621 feet of land . . . . | | $33,000 | |
| Library Building . . . . | | 100,000 | |
| | | | 133,000 |
| Fire Department: | | | |
| Hook and Ladder No. 2, Portland Street . | $12,000 | | |
| 11,931 feet land . . | 3,000 | | |
| | | $15,000 | |
| Engine House No. 5, Junc. Cambridge and Hampshire Streets . | $10,000 | | |
| 6,000 feet land . . | 3,000 | | |
| | | 13,000 | |
| Engine House and Police Station Fourth Street . . . | $9,000 | | |
| 4,220 feet land . . | 2,100 | | |
| | | 11,100 | |
| Engine House, Third St. N. S. Otis, of F.H. and Heirs of Daniel Rindge 3,375 ft. . | $2,300 | | |
| N. S. Otis, of Heirs of Walter Welch, 1,875 feet. . . . | 1,700 | | |
| | | 4,000 | |
| Engine House No.4 and stable, North Avenue | $7,000 | | |
| 6,516 feet land. . . | 3,000 | | |
| | | 10,000 | |
| *Amounts carried forward* . . | | $53,100 | $205,500 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $53,100 | $205,500 |
| Fire Department — *continued.* | | | |
| Engine House No. 2, | | | |
| Main Street . . | $5,000 | | |
| 3,150 feet land . . | 3,000 | | |
| | | 8,000 | |
| Engine House No. 6, | | | |
| River Street . . | $12,000 | | |
| 9 4 feet land . . | 2,500 | | |
| | | 14,500 | |
| | | | 75,600 |
| Pauper Department: | | | |
| $14\frac{242}{1000}$ acres of land . . . | | $11,000 | |
| Almshouse buildings . . . | | 25,000 | |
| | | | 36,000 |
| Public Buildings and Lands: | | | |
| City Hall (new), Main | | | |
| Street . . . . | $200,000 | | |
| 47,878 feet land . . | 72,000 | | |
| | | 272,000 | |
| City Hall (old), Main | | | |
| Street . . . | $10,000 | | |
| 12,881 feet land . . | 19,300 | | |
| | | 29,300 | |
| Ward One Building, | | | |
| Mt. Auburn Street . | $60,000 | | |
| 16,153 feet land . . | 9,700 | | |
| | | 69,700 | |
| Ward Four Building, | | | |
| Green Street . . | $50,000 | | |
| 13,028 feet land . . | 10,500 | | |
| | | 60,500 | |
| Stables, Sheds and | | | |
| Scales, Hampshire | | | |
| Street . . . | $17,000 | | |
| 72,661 feet land . . | 30,000 | | |
| | | 47,000 | |
| 1 House N. S. Spruce Street . . | | 200 | |
| Park, Boylston, Mt. Auburn and Win- | | | |
| throp Streets, 10,236 feet land . | | 6,000 | |
| Park, S. S. Broadway, 107,181 ft. land | | 54,000 | |
| Park, Hastings Square, 30,000 ft. land | | 9,000 | |
| *Amounts carried forward* . . | | $547,700 | $317,100 |

| | | |
|---|---|---|
| *Amounts brought forward* . . | $547,700 | $317,100 |
| Public Buildings and Lands — *continued.* | | |
| Park, Dana Square, 33,531 feet land | 12,000 | |
| Park, Pleasant Street, 1,372 feet land | 1,000 | |
| Park, Pleasant, River, Cottage and Kinnaird Streets, 1,569 feet land . | 1,200 | |
| Fort Washington, E. S. Waverly Street, 42,123 feet land . . | 8,000 | |
| Mill Pond, N. S. River Street, 305,690 feet . . . . . | 46,000 | |
| Lot, S. S. Porter Street, 3,578 . . | 700 | |
| Lot, E. S. Portland Street, 18,011 feet | 5,500 | |
| 8 Lots, E. S. Norfolk Street, 39,600 ft. | 12,000 | |
| Lot, S. S. Broadway, 12,329 feet . | 7,000 | |
| Lot, Second Street, 26,400 . . | 2,600 | |
| Lot, W. S. Reed Street, 1,500 feet . | 100 | |
| 2 Lots, Walden Street, 16,365 feet . | 1,000 | |
| Lot, N. S. River Street, 2,282 feet . | 700 | |
| Wharf, S. S. Main Street 9,720 feet . | 7,300 | |
| Flats, S. S. Main Street, 152,659 feet | 7,600 | |
| Common, Garden, North Avenue and Waterhouse Streets, 370,785 feet . | 150,000 | |
| Park, North avenue, Kirkland and Cambridge Streets, 33,357 feet<br>North Avenue and Harvard Square, 23,074 feet<br>Park, North Avenue, Cambridge Street, and Holmes Place, 20,956 ft. | 77,000 | |
| Triangular Lot, Main and Arrow Streets, 872 feet . . . . . | 800 | |
| Burial Ground, North Avenue and Garden Street, 3,189 feet .<br>Triangular Lot, Chauncy and Garden Streets, 85,858 feet . . . | 1,500 | |
| 2 Houses and store 119, 121 and 123 Banks Street, and 31 Flagg .<br>House 33 Flagg St. rear 123 Banks | 5,000 | |
| Buildings and land, N. S. Bridge . | 1,000 | |
| | | 895,700 |
| *Amount carried forward* . . . | | $1,212,800 |

| | | |
|---|---|---|
| *Amount brought forward* . . . . . | | $1,212,800 |
| School houses and lands: | | |
| WARD ONE. | | |
| New High School, Broadway . . . . | $220,000 | |
| 74,366 feet land . . | 18,000 | |
| | | $238,000 |
| Washington Grammar, Brattle Street . . | $30,000 | |
| 14,951 feet land . . | 7,000 | |
| | | 37,000 |
| Corlett Grammar, Holworthy . . . | $3,000 | |
| 10,000 feet land . . | 600 | |
| | | 3,600 |
| Manual Training School, Broadway and Irving Street . . . Land, 48,614 feet . . . . | | 1,200 |
| Agassiz Primary, Sacramento Street . . | $18,000 | |
| 19,689 feet land . | 6,000 | |
| | | 24,000 |
| Cushing Primary, Cushing Street . . | $3,000 | |
| 14,787 feet land . . | 1,000 | |
| | | 4,000 |
| Dunster Primary, Concord Avenue . . | 4,000 | |
| 10,000 feet land . . | 2,000 | |
| | | 6,000 |
| Holmes Primary, Hilliard Street . . | $6,000 | |
| 11,182 feet land . . | 4,500 | |
| | | 10,500 |
| Lowell Primary, Lowell Street . . . | $7,000 | |
| 12,033 feet land . . | 2,500 | |
| | | 9,500 |
| Quincy Primary, Mason Street . . . | $10,000 | |
| 8,469 feet land . | 5,000 | |
| | | 15,000 |
| *Amounts carried forward* . . | | $348,800 $1,212,800 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $348,800 | $1,212,800 |
| School houses and lands — *continued.* | | | |
| Riverside Primary, Putnam Avenue . | $5,000 | | |
| 11,198 feet land . . | 3,000 | | |
| | | 8,000 | |
| WARD TWO. | | | |
| Latin High, Fayette St. | $40,000 | | |
| 37,828 feet land . . | 15,000 | | |
| | | 55,000 | |
| Old Latin High, Lee Street . . . | $10,000 | | |
| 10,100 feet land . . | 5,000 | | |
| | | 15,000 | |
| Wellington Training, Columbia Street . | $16,000 | | |
| 18,870 feet land . . | 5,700 | | |
| | | 21,700 | |
| Allston Grammar, Boardman Street . | $18,000 | | |
| 15,193 feet land . . | 4,600 | | |
| | | 22,600 | |
| Harvard Grammar, Inman Street . . | $40,000 | | |
| 20,494 feet land . . | 12,000 | | |
| | | 52,000 | |
| Bridge Primary, Pioneer Street . . | $500 | | |
| 4,646 feet land . . | 1,400 | | |
| | | 1,900 | |
| Dana Primary, Centre Street . . . | $2,000 | | |
| 14,317 feet land . . | 4,300 | | |
| | | 6,300 | |
| Felton Primary, Amory Street . . | $6,000 | | |
| 15,090 feet land . . | 4,500 | | |
| | | 10,500 | |
| Gannett (old) Primary, Columbia . . | $2,000 | | |
| 8,803 feet land . . | 2,500 | | |
| | | 4,500 | |
| *Amounts carried forward* . . | | $546,300 | $1,212,800 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $546,300 | $1,212,800 |
| School houses and lands — *continued.* | | | |
| Gannett (new) Primary, Jefferson Street . | $12,000 | | |
| 15,434 feet land . . | 3,000 | | |
| | | 15,000 | |
| Sargent Primary, Broadway . . | $3,000 | | |
| 9,995 feet land . . | 4,000 | | |
| | | 7,000 | |
| Stearns Primary, Harvard Street . . | $3,000 | | |
| 10,050 feet land . . | 5,000 | | |
| | | 8,000 | |
| WARD THREE. | | | |
| Putnam Grammar, Fourth and Otis Sts. | $60,000 | | |
| 11,900 feet land . . | 8,300 | | |
| | | 68,300 | |
| Thorndike Grammar, Thorndike Street . | $30,000 | | |
| 10,027 feet land . . | 4,000 | | |
| | | 34,000 | |
| Gore Primary, Gore Street . . . | $25,000 | | |
| 9,900 feet land . . | 4,000 | | |
| | | 29,000 | |
| Lassell Primary, Charles Street . . . | $8,000 | | |
| 10,000 feet land . . | 2,500 | | |
| | | 10,500 | |
| Otis Primary, Otis St.. | $12,000 | | |
| 8,270 feet land . . | 4,000 | | |
| | | 16,000 | |
| WARD FOUR. | | | |
| Webster Grammar, Upton Street . . | $50,000 | | |
| 25,839 feet land . . | 9,000 | | |
| | | 59,000 | |
| Boardman Primary, Winsor Street . | $12,500 | | |
| 10,018 feet land . . | 4,000 | | |
| | | 16,500 | |
| *Amounts carried forward* . . . | | $809,600 | $1,212,800 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $809,600 | $1,212,800 |
| School houses and lands — *continued.* | | | |
| Mason Primary, Front Street . . . | $2,000 | | |
| 10,000 feet land . . | 8,000 | | |
| | | 10,000 | |
| Tarbell Primary, Grigg Street . . . | $8,000 | | |
| 19,500 feet land . . | 4,000 | | |
| | | 12,000 | |
| Willard Primary, Lake Street . . . | $20,000 | | |
| 20,079 feet land . . | 5,000 | | |
| | | 25,000 | |
| Morse school house on Allston and Brookline Streets . . | $25,000 | | |
| 25,650 feet land . . | 7,000 | | |
| | | 32,000 | |
| WARD FIVE. | | | |
| Peabody Grammar, Linnæan Street . | $27,000 | | |
| 21,813 feet land . . | 7,000 | | |
| | | 34,000 | |
| Shepard Grammar, North Avenue . | $20,000 | | |
| 14,755 feet land . . | 7,000 | | |
| | | 27,000 | |
| Reed Primary, Reed St. | $4,000 | | |
| 12,000 feet land . . | 1,200 | | |
| | | 5,200 | |
| Wyman Primary, Spruce Street. . | $6,000 | | |
| 14,347 feet land . . | 3,000 | | |
| | | 9,000 | |
| | | | 963,800 |
| Sewer Department: | | | |
| 23,707 feet of land . . . . | | $5,900 | |
| Stables, shed and house . . . | | 3,500 | |
| | | | 9,400 |
| *Amount carried forward* . . . | | | $2,186,000 |

| | | | |
|---|---|---|---|
| *Amount brought forward.* . . | | | $2,186,000 |
| Water works: | | | |
| House, S. S. Concord Ave. | $2,000 | | |
| $27\frac{33}{100}$ acres land . | 16,700 | | |
| | | 18,700 | |
| Land, S.S. Concord Avenue, $\frac{5}{8}$ acre . | | 300 | |
| Land, E. S. Woodlawn Ave., 15,735 ft. | | 800 | |
| Lot, rear of Grove Street in Belmont, 272,800 feet . . . . . | | 2,000 | |
| Lot, S. S. Concord Ave. 99,000 feet . | | 1,000 | |
| Land, S. S. Concord Ave. 11,220 ft. . | | 100 | |
| Two Lots, S. S. Concord Avenue, 219,400 ft. . . . . | | 600<br>1,600 | |
| Lot, S. S. Concord Ave., 24,100 feet | | 300 | |
| Hotel, house, stables, etc., Fresh Pond Lane . . | $9,000 | | |
| $11\frac{1}{4}$ acres land . . . | 11,000 | | |
| | | 20,000 | |
| Kingsley Park, Fresh Pond Lane, 309,336 feet . . . . . | | 8,000 | |
| Lot, rear Fresh Pond Lane, 364,608 ft. | | 3,500 | |
| Lot, Woodlawn Avenue, 107,616 feet | | 8,000 | |
| Lot, Woodlawn Avenue, 26,989 feet . | | 1,600 | |
| Lot, rear Fresh Pond Lane, 239,541 ft. | | 5,000 | |
| Lot, Woodlawn Avenue, 91,040 feet . | | 2,000 | |
| Lot, Holworthy Street, 18,480 feet .<br>Lot, W. S. Cushing St., 22,348 feet . | | 500 | |
| Lot, E. S. Cushing Street, 41,053 feet | | 800 | |
| Lot, Cushing Street, cor. of Woodlawn Avenue, 95,482 feet . . | | 2,000 | |
| Lot, Woodlawn Avenue, 24,096 feet | | 1,900 | |
| Lot, E. S. Cushing St., 222,750 feet<br>Lot, E. S. Cushing St., 416,800 ft. land | | 4,000 | |
| Two Lots, near Fresh Pond and Adams Place, 110,891 feet . . | | 1,000 | |
| House, Adams Place . . . | | 400 | |
| House, Adams Place . . . | | 200 | |
| Land, Adams Place, 55,275 feet<br>105,322 feet . . . . . | | 1,400 | |
| *Amounts carried forward* . . | | $85,700 | $2,186,000 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $85,700 | $2,186,000 |
| Water works —*continued.* | | | |
| Lot, Woodlawn Ave., 25,216 feet land | | 1,200 | |
| Gravel pit, S. S. Concord Avenue, 397,417 $\frac{7}{10}$ feet . . . . | | 3,000 | |
| House, stable and shed, Adams Street | | 1,400 | |
| 190,500 feet land . . . . | | 4,300 | |
| Lot, W. S. Cushing Street, 91,112 feet | | 500 | |
| Six Icehouses, near Concord Avenue and railroad . . . . | 15,000 | | |
| Engine house, near Concord Avenue and railroad . . . . | | | |
| House, shed and stable, near Concord Avenue and railroad . . | 1,000 | | |
| Six Icehouses, near Concord Avenue and railroad . . . . | 15,000 | | |
| Three Icehouses, near Concord Avenue and . | 2,000 | | |
| railroad 4$\frac{1}{2}$ acres land . | 5,000 | | |
| | | 38,000 | |
| House, near Fresh Pond | $2,000 | | |
| House, old Adams place | 800 | | |
| Barn and shed, Adams place . . . . | 1,200 | | |
| Tool house, Adams place | | | |
| Two Icehouses, Adams place . . . . | 7,005 | | |
| Three Icehouses, Adams place . . . . | 10,000 | | |
| Engine house and sheds, Adams place . . | 1,000 | | |
| Office and scales, Adams place . . . . | 1,000 | | |
| Icehouses (Black's), Adams place . . | 2,000 | | |
| 419,222 feet land . . | 10,000 | | |
| | | 35,000 | |
| *Amounts carried forward* . . . | | $169,100 | $2,186,000 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $169,100 | $2,186,000 |
| Water works — *continued.* | | | |
| House, S. S. Concord Avenue . . . | $500 | | |
| 10,805 feet land . . | 500 | | |
| | | 1,000 | |
| House, Concord Avenue, corner Adams Street . | $700 | | |
| 32,425 feet land . . | 700 | | |
| | | 1,400 | |
| House and stable, Concord Avenue . . | $2,000 | | |
| 62,000 feet land . . | 1,200 | | |
| | | 3,200 | |
| Lot, Adams Street, $1\frac{3}{4}$ acres . . . . | | 1,000 | |
| House and stable, S. S. Concord Avenue . | $4,000 | | |
| 294,000 feet land . . | 3,000 | | |
| | | 7,000 | |
| Tudor Park, near Concord Avenue, 57,312 feet land . . . . | | | |
| Pumping Station, Worthington Street, 90,414 feet land . . | | 61,000 | |
| Reservoir, Reservoir Street, 91,003 feet land . . . . . | | 18,000 | |
| One house, stable and sheds, S. S. Auburn Street . . . | $3,700 | | |
| 33,300 feet land . . | 6,600 | | |
| | | 10,300 | |
| Lot, Grove Street, 150,000 feet . | | 1,500 | |
| Land and buildings, Grove Street, 519,000 feet . . . . . | | 11,000 | |
| | | | $284,500 |
| Total . . . . . | | | $2,470,500 |

The following is a summary of the real and personal property under the charge of heads of departments and executive boards:

| | Real. | Personal. |
|---|---|---|
| Bridge Commissioners | $3,370 00 | $2,598 00 |
| Chief Engineer of Fire Department | | 59,624 00 |
| Chief of Police | | 12,282 50 |
| City Engineer | | 20,253 50 |
| Commissioners of Cambridge Cemetery | 78,000 00 | 11,380 80 |
| Inspector of Milk and Vinegar | | 100 00 |
| Inspector of Wires | | 26,750 00 |
| Overseers of the Poor | 52,133 94 | 18,384 00 |
| School Committee | | 23,982 46 |
| Superintendent of Lamps | | 7,476 00 |
| Superintendent of Public Buildings | 1,341,900 00 | 54,331 01 |
| Superintendent of Sewers | 9,400 00 | 4,100 00 |
| Superintendent of Streets | 119,900 00 | 51,360 00 |
| Trustees of Cambridge Public Library | 133,000 00 | 64,030 49 |
| Water Board | 490,275 00 | 101,880 00 |
| | $2,227,978 94 | $458,532 76 |

The following is a schedule of property used for religious, charitable and educational purposes, and exempt from taxation by law, not including that owned by the City of Cambridge:

**Exempted Property.**

WARD ONE.

| | | |
|---|---|---|
| Christ Church, Episcopal, Garden St.: | | |
| Church . . | $12,000 00 | |
| 19,215 feet land . | 10,000 00 | |
| | | $22,000 00 |
| First Parish Church, Unitarian: | | |
| Church, North Avenue . . | $20,000 00 | |
| 14,764 feet land . | 22,000 00 | |
| | | 42,000 00 |
| Cambridge Social Union: | | |
| Personal Property | $1,582 00 | |
| House, No. 42 Brattle Street . | 5,000 00 | |
| $\frac{13}{22}$ of hall . . | 7,000 00 | |
| 9,030 feet land . | 6,000 00 | |
| | | 19,582 00 |
| North Ave. M. E. Church: | | |
| Church, North Ave. | $30,000 00 | |
| 11,248 feet land . | 9,000 00 | |
| | | 39,000 00 |
| Old Cambridge Baptist Society: | | |
| Church, Main and Harvard Streets | $86,000 00 | |
| 34,573 feet land . | 24,000 00 | |
| | | 110,000 00 |
| Shepard Congregational Society: | | |
| Church, Garden St. | $100,000 00 | |
| 34,556 feet land . | 21,000 00 | |
| | | 121,000 00 |
| *Amount carried forward* . . | | $353,582 00 |

| | | |
|---|---|---|
| *Amount brought forward* . . | | $353,582 00 |
| St. Peter's, Catholic: | | |
| Concord Avenue . | $45,000 00 | |
| 32,000 feet land . | 10,000 00 | |
| | | 55,000 00 |
| St. Paul's, Catholic: | | |
| Mt. Auburn Street | $30,000 00 | |
| 11,216 feet land . | 8,000 00 | |
| | | 38,000 00 |
| St. Paul's Catholic School Association: | | |
| Personal property | $1,000 00 | |
| School building . | 55,000 00 | |
| House, Arrow and Mt. Auburn Sts. | 7,000 00 | |
| 29,091 feet land . | 15,000 00 | |
| | | 78,000 00 |
| Cambridge Hospital: | | |
| Personal property | $111,731 46 | |
| Building, Mt. Auburn Street . | 59,000 00 | |
| 412,487 feet land . | 41,000 00 | |
| | | 211,731 46 |
| Longfellow Memorial Association: | | |
| Personal Property | $15,439 76 | |
| Park, S. S. Brattle St., 93,618 feet . | 36,000 00 | |
| | | 51,439 76 |
| Episcopal Theological School, Trustees of: | | |
| Personal property | $136,224 41 | |
| Chapel, Seminary, dormitories, and one house, Brattle and Mason Streets . . | 210,400 00 | |
| 101,874 feet land . | 51,000 00 | |
| Lot 2,980 ft. rear Brattle Street . | 1,500 00 | |
| *Am'ts carried forward* | $399,124 41 | $787,753 22 |

| | | | |
|---|---|---|---|
| *Am'ts brought for'd* | $399,124 41 | $787,753 22 | |
| Episc. Theo. School: | | | |
| Two houses, Hawthorne and Acacia Streets . | 10,300 00 | | |
| 7,500 feet land . | 3,700 00 | | |
| | | 413,124 41 | |
| Corporation of Avon Place Trustees, Mt. Auburn St.: | | | |
| 69,470 feet land . | | 14,000 00 | |
| Society for the Collegiate Instruction of Women: | | | |
| Personal property | $75,000 00 | | |
| House, laboratory and gymnasium, Garden and Mason Streets . | 25,000 00 | | |
| 43,558 feet land . | 30,000 00 | | |
| | | 130,000 00 | |
| The Corporation of the New Church Theological School | | | |
| Personal property | $42,084 42 | | |
| House and Stable, 48 Quincy Street | 10,000 00 | | |
| 60,000 feet land . | 36,000 00 | | |
| | | 88,084 42 | |
| President and fellows of Harvard College: | | | |
| Personal property | $5,851,636 00 | | |
| Dormitories, Chapel, Laboratories, Museums, Lecture Rooms and Houses, including Ward Five property . . | 2,723,000 00 | | |
| | | 8,574,636 00 | |
| *Amount carried forward* . . | | | $10,007,598 05 |

| | | | |
|---|---|---|---|
| *Amount brought forward* . . . . | | | $10,007,598 05 |
| WARD TWO. | | | |
| Baptist Church, Trustees of funds of: | | | |
| Chapel, Hampshire Street . . | $3,000 00 | | |
| 2,560 feet land . | 800 00 | | |
| | | 3,800 00 | |
| B'dway Bap. Church: | | | |
| Church, W. S. Boardman Street | $30,000 00 | | |
| 11,620 feet land . | 8,000 00 | | |
| | | 38,000 00 | |
| Cambridgeport Unitarian Society: | | | |
| Church, N. S. Austin Street. . | $18,000 00 | | |
| 13,116 feet land . | 8,000 00 | | |
| | | 26,000 00 | |
| Harvard Street M. E. Society: | | | |
| Church, N. S. Harvard Street . | $22,000 00 | | |
| 10,030 feet land . | 8,000 00 | | |
| | | 30,000 00 | |
| St. Paul's A. M. E. Church: | | | |
| Church, N.S. Hastings Street . | $2,000 00 | | |
| 5,386 feet land . | 2,000 00 | | |
| | | 4,000 00 | |
| Hope Congregational Church: | | | |
| Church, N. S. Harvard Street . | $8,000 00 | | |
| 6,000 feet land . | 3,000 00 | | |
| | | 11,000 00 | |
| First Evangelical Congregational Society: | | | |
| Church, W. S. Prospect Street | $40,000 00 | | |
| 19,513 feet land . | 12,000 00 | | |
| | | 52,000 00 | |
| *Amounts carried forward* . . | | $164,800 00 | $10,007,598 05 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $164,800 00 | $10,007,598 05 |
| First A. M. E. Society: | | | |
| House, 108 Hastings Street . | $600 00 | | |
| 1,616 feet land . | 500 00 | | |
| | | 1,100 00 | |
| First Universalist Society of Camb.: | | | |
| Church, E. S. Inman Street . | $20,000 00 | | |
| 15,312 feet land . | 11,300 00 | | |
| | | 31,300 00 | |
| St. Mary's Parochial School: | | | |
| Church, W. S. Norfolk, corner Harvard Street | $45,000 00 | | |
| Girls' School, S. S. Harvard Street | 8,000 00 | | |
| Boys' School, E. S. Essex Street . | 18,000 00 | | |
| Sisters' Home, 50 and 52 Essex St. | 7,000 00 | | |
| 57,428 feet land . | 20,000 00 | | |
| Theatre, E. S. Norfolk Street . | 15,000 00 | | |
| 13,032 feet land . | 6,500 00 | | |
| Gymnasium, E. S. Prospect Street | 35,000 00 | | |
| 11,370 feet land . | 5,600 00 | | |
| House, 55 Norfolk Street . . | 7,500 00 | | |
| 7,500 feet land . | 2,300 00 | | |
| | | 169,900 00 | |
| Cambridge Home for Aged People, 157 Hancock Street: | | | |
| 12,094 feet of land | $6,000 00 | | |
| One house . . | 7,000 00 | | |
| | | 13,000 00 | |
| *Amounts carried forward* . . | | $380,100 00 | $10,007,598 05 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $380,100 00 | $10,007,598 05 |
| St. Bartholomew's Church, W. S. Columbia, 5,562 feet . | | 1,500 00 | |
| St. Luke's Reformed Episcopal Church, N. S. Harvard, corner of Inman St.: | | | |
| 6,250 feet of land . | $4,500 00 | | |
| Church building . | 9,000 00 | | |
| | | 13,500 00 | |
| | | | 395,100 00 |

WARD THREE.

| | | | |
|---|---|---|---|
| First Methodist Episcopal Church: | | | |
| Church, Cambridge, corner Third St. | $25,000 00 | | |
| 5,000 feet land . | 12,500 00 | | |
| | | $37,500 00 | |
| Second Baptist Society: | | | |
| Church, Cambridge and Fourth Sts. | $12,000 00 | | |
| 6,000 feet land . | 10,000 00 | | |
| | | 22,000 00 | |
| Missions of the Ascension: | | | |
| Church, Third and Thorndike Sts. . | $5,000 00 | | |
| 5,000 feet land . | 4,000 00 | | |
| | | 9,000 00 | |
| Second Universalist Society: | | | |
| Church, Otis St. | $16,000 00 | | |
| 5,000 feet land . | 3,000 00 | | |
| | | 19,000 00 | |
| St. John's Church: | | | |
| Church, Fourth St. | $25,000 00 | | |
| 5,000 feet land . | 3,000 00 | | |
| | | 28,000 00 | |
| *Amounts carried forward* | | $115,500 00 | $10,402,698 05 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $115,500 00 | $10,402,698 05 |
| Church of the Sacred Heart : | | | |
| Church, Sixth, Otis and Seventh Sts. | $70,000 00 | | |
| 30,000 feet land . | 12,000 00 | | |
| | | 82,000 00 | |
| Middlesex County Buildings : | | | |
| Court House, Third, Otis and Thorndike Sts. | $70,000 00 | | |
| Registry of Deeds, Second, Otis and Third Streets . | 175,000 00 | | |
| 60,000 feet land . | 36,000 00 | | |
| | | 281,000 00 | |
| House of Correction, Jail and shops, Thorndike, Third, Spring and Second Streets . | $250,000 00 | | |
| 60,000 feet land . | 24,000 00 | | |
| | | 274,000 00 | |
| St. John Lit. Institute : | | | |
| Hall and stores, Cambridge Street, | | | |
| $\frac{2}{3}$ value . . | $20,000 00 | | |
| $\frac{1}{2}$ of 6,300 feet land | 4,700 00 | | |
| Cash assets . . | 1,041 00 | | |
| | | 25,741 00 | |
| | | | 778,241 00 |
| WARD FOUR. | | | |
| Cambridge Young Men's Christian Association : | | | |
| Personal property | $1,700 00 | | |
| Building, 622–624 Main Street . | 8,000 00 | | |
| Land . . . | 8,000 00 | | |
| | | 17,700 00 | |
| *Amounts carried forward* . . | | $17,700 00 | $11,180,939 05 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $17,700 00 | $11,180,939 05 |
| Charles River Baptist Church: | | | |
| Church, E. S. Magazine Street . | $2,500 00 | | |
| 11,250 feet land . | 3,000 00 | | |
| | | 5,500 00 | |
| First Baptist Society: | | | |
| Church, Central Square . . | $80,000 00 | | |
| 21,200 feet land . | 20,000 00 | | |
| | | 100,000 00 | |
| Grace M. E. Church: | | | |
| Church, E. S. Magazine Street . | $35,000 00 | | |
| 7,700 feet land . | 5,000 00 | | |
| | | 40,000 00 | |
| Mass. Baptist Convention — Union Baptist Church: | | | |
| Church, 452 Main Street . . | $10,000 00 | | |
| 3,900 feet land . | 2,800 00 | | |
| | | 12,800 00 | |
| Pilgrim Congregational Church: | | | |
| Church, W. S. Magazine Street | $30,000 00 | | |
| 8,885 feet land . | 7,500 00 | | |
| | | 37,500 00 | |
| Baptist Home, 168–170 Brookline St., two houses and stable . . . | | 16,000 00 | |
| Protestant Episcopal Church, Trustees of donations to: | | | |
| Church, S. S. Main St. (St. Peter's) | $10,000 00 | | |
| 9,229 feet land . | 9,000 00 | | |
| | | 19,000 00 | |
| *Amounts carried forward* . . | | $248,500 00 | $11,180,939 05 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $248,500 00 | $11,180,939 05 |
| East End Union Mission: | | | |
| Church, W. S. Brewery Street | | 3,500 00 | |
| Rush African M. E. Zion Church: | | | |
| Church, S. S. School Street . | $6,000 00 | | |
| Lot No. 7, 2,760 feet · . . | 1,100 00 | | |
| | | 7,100 00 | |
| St. Phillip's Church, Episcopal: | | | |
| Church, N. S. Allston Street . | $3,000 00 | | |
| 4,686 feet land . | 1,200 00 | | |
| | | 4,200 00 | |
| Wood Memorial Church, Congregationalist: | | | |
| Church, W.S. Columbia, corner Austin Street . | $30,000 00 | | |
| 7,500 feet land . | 4,000 00 | | |
| | | 34,000 00 | |
| | | | $297,300 00 |

WARD FIVE.

| | | | |
|---|---|---|---|
| Catholic Cemetery, Spruce Street, 304,014 feet . | | $24,000 00 | |
| North Avenue Congregational Society: | | | |
| Church, North Ave. | $30,000 00 | | |
| 13,430 feet land . | 6,500 00 | | |
| | | $36,500 00 | |
| Porter's Station Depot, North Avenue, Fitchburg R.R.Co. | | 2000, 00 | |
| *Amounts carried forward* . . | | $62,500 00 | $11,478,239 05 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | | $62,500 00 | $11,478,239 05 |
| Third Universalist Society: | | | |
| Church, North Avenue . . | $30,000 00 | | |
| 11,958 feet land . | 6,000 00 | | |
| | | 36,000 00 | |
| St. James Episcopal Society: | | | |
| Church and Chapel, North Avenue and Beech St. . | $75,000 00 | | |
| 21,207 feet land (cemetery lot included) . . | 10,000 00 | | |
| | | 85,000 00 | |
| North Avenue Baptist Society: | | | |
| Church, North Avenue . . | $55,000 00 | | |
| 38,873 feet land . | 15,000 00 | | |
| | | 70,000 00 | |
| Avon Home: | | | |
| Mt. Auburn Street | $36,000 00 | | |
| Personal Property | 24,700 00 | | |
| | | 60,700 00 | |
| | | | 314,200 00 |
| Total . . . . . | | | $11,792,439 05 |

# REPORT OF THE COMMITTEE ON ACCOUNTS.

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CAMBRIDGE, Dec. 27, 1892.

*To the Honorable the City Council of the City of Cambridge:—*

THE Committee on Accounts for the year ending November 30, 1892, respectfully submits its annual report as required by the City Ordinance.

The Committee has met from time to time and made the prescribed examination of the books and accounts of the Auditing Department and has found them kept in a manner highly satisfactory to the Committee.

E. BURT PHILLIPS,
EDWARD C. WHEELER,
FREDERICK W. MACDONALD,
FRANK E. SANDS,
JAMES W. COLEMAN,
} *Committee on Accounts.*

# REPORT OF THE COMMITTEE ON FINANCE.

The Committee on Finance for the year 1892 submits herewith its annual report.

The Committee reported its estimates with the usual orders making appropriations in accordance therewith, in the month of February last, as provided by City Ordinance. The estimates were as follows: —

## Estimates of Appropriations and Revenue, 1892.

REVENUE.

*City Department Accounts.*

| | | |
|---|---|---|
| For account of Bridges (West Boston, Craigie's and Prison Point) | | $400 00 |
| For account of Cambridge Cemetery. Receipts for Sale and Care of Lots and Burial Fees | | 17,000 00 |
| For account of Cambridge Public Library. Receipts from all Sources | | 4,500 00 |
| For account of City Clerk's Department. Receipts from all Sources | | 2,200 00 |
| For account of City Treasurer's Department. Receipts from all Sources | | 1,500 00 |
| For account of Interest. Receipts from Interest on Taxes, etc. | | 3,000 00 |
| For account of Law Department. Receipts from Water Board, Three-fifths Salary City Solicitor | | 1,500 00 |
| For account of Overseers of the Poor: | | |
| Almshouse. Receipts from Sale of Farm Produce, etc. | | 2,000 00 |
| Farm and Ledge. Receipts from Sale of Stone, etc. | | 11,000 00 |
| House Offal. Receipts from Sale of Offal | | 7,500 00 |
| Outside Aid. Receipts from Aid Outside of Almshouse | | 3,000 00 |
| For account of Police Department. Receipts from Fees from Clerk of Courts, etc. | | 7,000 00 |
| For account of Public Property: | | |
| City Buildings. Receipts from Rent of Public Buildings | $2,100 00 | |
| Care and repairs. Receipts from Rent of Armories from State | 800 00 | |
| | | 2,900 00 |
| *Amount carried forward* | | $63,500 00 |

| | | |
|---|---|---|
| *Amount brought forward* . . . . . | | $63,500 00 |
| For account of School Department: | | |
| Salaries. Receipts from Hopkins Charity . . | $750 00 | |
| Salaries. Receipts from Tuition (non-residents) . | 650 00 | |
| | | 1,400 00 |
| Text-books and Stationery. Receipts from Sale and Damage to Books . . . . . | | 300 00 |
| For account of Sealer of Weights and Measures. Receipts from Fees . . . . . | | 450 00 |
| For account of Sewer Department: | | |
| Construction. Receipts from Assessments . . | | 10,000 00 |
| Maintenance. Receipts from City of Somerville (Bridge St. Sewer) . . . . . | $1,235 00 | |
| Other Sources. Receipts . . . . . | 265 00 | |
| | | 1,500 00 |
| For account of State Aid. Receipts from Allotment from State . . . . . | | 13,000 00 |
| For account of Stationery and Printing. Receipts from Various Sources . . . . . | | 500 00 |
| For account of Street Department: | | |
| Construction First St. On account of Bridge . | | 2,500 00 |
| Construction and Maintenance, Belmont Dist. Receipts from Water Dept. Surplus Revenue . | | 10,000 00 |
| Maintenance. Receipts from Ashes, Scrapings, etc. | | 3,000 00 |
| Paving. Receipts from Sidewalk Assessments, etc. | | 15,000 00 |
| Widening North Avenue. Exchange of Almshouse Land for part of Land taken . . . | | 1,808 76 |
| Watering. Watering Streets (Collection) . . | | 14,000 00 |
| Total estimated Revenue from City Department Appropriation Accounts . . . . . | | $136,958 76 |
| *Water Department Accounts.* | | |
| For account of Water Works. Receipts from Rates, Fines, etc. . . . . | $205,622 50 | |
| For account of Water Works. Receipts from Supply Pipes, Repairs, etc. . . . . | 7,100 00 | |
| Total estimated Revenue from Water Department Appropriation Accounts . . . | | 212,722 50 |
| Total Estimate from City and Water Departments . | | $349,681 26 |
| *Other Revenue.* | | |
| Amount of Corporation Tax from Commonwealth for 1892 (estimated) . . . . . | $50,000 00 | |
| Amount of National Bank Tax from Commonwealth for 1892 (estimated), $17,000, less $6,000 . . | 11,000 00 | |
| Amount of Uncollected Taxes for 1891 and previous years (estimated) . . . . . | 100,000 00 | |
| Cash in Treasury Dec. 1, 1891 . . . . . | 105,936 47 | |
| | | 266,936 47 |
| Total Estimated Revenue . . . . . | | $616,617 73 |

## APPROPRIATIONS.

*City Department Accounts.*

| | *Revenue.* | *Net Expense.* | *Appropriations.* |
|---|---|---|---|
| Assessor's Department | | $10,300 00 | $10,300 00 |
| Auditor's Department | | 3,200 00 | 3,200 00 |
| Bridge (Harvard) | | 7,158 84 | 7,158 84 |
| Bridges (West Boston, Craigie's, Prison Point) | $400 00 | 8,300 00 | 8,700 00 |
| Cambridge Cemetery | 17,000 00 | | 17,000 00 |
| Cambridge Public Library | 4,500 00 | 9,500 00 | 14,000 00 |
| City Clerk's Department | 2,200 00 | 3,700 00 | 5,900 00 |
| City Messenger's Department | | 2,600 00 | 2,600 00 |
| City Treasurer's Department | 1,500 00 | 11,000 00 | 12,500 00 |
| Civil Service | | 225 00 | 225 00 |
| Clerk of Committees | | 3,500 00 | 3,500 00 |
| Election Expenses: | | | |
| City Clerk | | 4,800 00 | 4,800 00 |
| Supt. of Public Buildings | | 600 00 | 600 00 |
| Registrars of Voters | | 3,100 00 | 3,100 00 |
| Engineering Department | | 9,500 00 | 9,500 00 |
| Executive Department | | 4,500 00 | 4,500 00 |
| Fire Department | | 61,000 00 | 61,000 00 |
| Health Department | | 4,500 00 | 4,500 00 |
| Incidental Expenses | | 25,000 00 | 25,000 00 |
| Inspection of Milk and Vinegar | | 1,000 00 | 1,000 00 |
| Inspection of Wires | | 12,000 00 | 12,000 00 |
| Interest | 3,000 00 | 132,000 00 | 135,000 00 |
| Law Department | 1,500 00 | 1,500 00 | 3,000 00 |
| Lighting Streets | | 65,000 00 | 65,000 00 |
| Overseers of the Poor: | | | |
| Almshouse | 2,000 00 | | 22,000 00 |
| Farm and Ledge | 11,000 00 | 17,000 00 | 8,000 00 |
| House offal | 7,500 00 | 12,000 00 | 19,500 00 |
| Outside Aid | 3,000 00 | 32,000 00 | 35,000 00 |
| City Physician | | 1,500 00 | 1,500 00 |
| Police | 7,000 00 | 97,500 00 | 104,500 00 |
| Public Property: | | | |
| City Buildings, Care and Repair | 2,900 00 | 18,100 00 | 21,000 00 |
| New Engine House in Ward Three | | 20,000 00 | 20,000 00 |
| School Houses, Care and Repair | | 44,000 00 | 44,000 00 |
| Harvard Grammar School, Two Iron Fire Escapes | | 1,500 00 | 1,500 00 |
| New High School House | | 63,043 66 | 63,043 66 |
| Repairs on Old High School Building | | 15,000 00 | 15,000 00 |
| Morse School House, Grading | | 500 00 | 500 00 |
| Incidentals | | 2,700 00 | 2,700 00 |
| *Amounts carried forward* | $63,500 00 | $708,827 50 | $772,327 50 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . | $63,500 00 | $708,827 50 | $772,327 50 |
| School Department: | | | |
| Incidentals . . . . | | 750 00 | 750 00 |
| Salaries . . . . . | 1,400 00 | 205,600 00 | 207,000 00 |
| Text-books, etc. . . . | 300 00 | 12,700 00 | 13,000 00 |
| Sealer of Weights and Measures . | 450 00 | 850 00 | 1,300 00 |
| Sewers: | | | |
| Construction . . . . | 10,000 00 | 10,000 00 | 20,000 00 |
| Maintenance . . . . | 1,500 00 | 28,500 00 | 30,000 00 |
| Sinking Funds . . . . | | 91,770 00 | 91,770 00 |
| State Aid . . . . . | 13,000 00 | 11,000 00 | 24,000 00 |
| Stationery and Printing . . | 500 00 | 2,000 00 | 2,500 00 |
| Street Department: | | | |
| Bridges, Construction . . | | 9,500 00 | 9,500 00 |
| Bridges, Maintenance . . | | 3,500 00 | 3,500 00 |
| Construction, First Street . . | 2,500 00 | 17,000 00 | 19,500 00 |
| Construction, Huron Street . | | 16,000 00 | 16,000 00 |
| Construction and Maintenance, Belmont District . . . | 10,000 00 | | 10,000 00 |
| Construction Front Street, Filling and Grading . . . . | | 9,140 65 | 9,140 65 |
| Widening, Inman Street . . | | 1,142 00 | 1,142 00 |
| Widening, North Avenue . . | 1,808 76 | 3,122 80 | 4,931 56 |
| Maintenance . . . . | 3,000 00 | 112,000 00 | 115,000 00 |
| Paving, Cambridge Street . . | | 12,000 00 | 12,000 00 |
| Paving, Sundry Streets . . | | 6,000 00 | 6,000 00 |
| Paving, Edgestones, etc. . . | 15,000 00 | 15,000 00 | 30,000 00 |
| Shade Trees and Public Grounds | | 6,000 00 | 6,000 00 |
| Watering . . . . . | 14,000 00 | 7,000 00 | 21,000 00 |
| | $136,958 76 | $1,289,402 95 | $1,426,361 71 |

*Water Department Accounts.*

| Water Works: | *Revenue.* | *Net Expense.* | *Appropriation.* |
|---|---|---|---|
| Construction . . . . | | $70,000 00 | $70,000 00 |
| Construction Fresh Pond Land Account . . . . . | | 125,000 00 | 125,000 00 |
| Construction Stony Brook Water Supply . . . . . | | 75,000 00 | 75,000 00 |
| Interest . . . . . | | | 93,225 00 |
| Maintenance . . . . | | | 45,000 00 |
| Rates, Fines, etc. . . . | $205,622 50 | | |
| Rates, Fines, "Abatements" . | | | 3,000 00 |
| Rates, Fines, "Refunds" . . | | | 2,000 00 |
| Sinking Fund . . . . | | | 62,397 50 |
| Supplies . . . . . | 7,000 00 | | 7,000 00 |
| Supplies, "Abatements" . . | 100 00 | | 100 00 |
| Total estimate for Water Dept. Acct. | $212,722 50 | $270,000 00 | $482,722 50 |

**Recapitulation.**

| | *Revenue.* | *Net Expense.* | *Appropriation.* |
|---|---|---|---|
| Total estimates, City Department accounts | $136,958 76 | $1,289,402 95 | $1,426,361 71 |
| Total estimates, Water Department accounts | 212,722 50 | 270,000 00 | 482,722 50 |
| Grand Totals | $349,681 26 | $1,559,402 95 | $1,909,084 21 |
| Amount of estimated expenses, as before recited | | $1,909,084 21 | |
| Allowance for estimated uncollected taxes *of the year 1892*, remaining uncollected as of Nov. 30, 1892 | | 120,000 00 | |
| Total appropriations and liabilities | | | $2,029,084 21 |
| LESS. | | | |
| Estimated revenue of all kinds, and Cash in the Treasury, as hereinbefore recited | | | $616,617 73 |
| Leaving an amount to be provided for of | | | $1,412,466 48 |

The Committee recommended that this amount be provided for as follows:—

| | | | |
|---|---|---|---|
| 1. By the issue of City Loan Bonds, viz.: | | | |
| Building Loan: New Engine House and Land | $20,000 00 | | |
| Street Loan: Construction of Streets | 55,000 00 | | |
| | | $75,000 00 | |
| 2. By the issue of Water Loan Bonds, viz.: | | | |
| Water Works (construction) | | $270,000 00 | |
| 3. By assessment upon the polls and estates of the inhabitants of Cambridge, etc., for the current year, being the amount required for municipal expenses for the year (the State Tax and County Tax to be assessed by the Assessors, by authority of Law, in addition hereto) | | 1,067,466 48 | |
| Total | | | $1,412,466 48 |

In accordance with the foregoing, this Committee recommended the adoption of the accompanying orders:

CITY OF CAMBRIDGE,
IN COMMON COUNCIL, Feb. 16, 1892.

*Ordered*, That the sum of *One Million and Sixty-seven Thousand, Four Hundred and Sixty-six Dollars and Forty-eight Cents* ($1,067,466 48) be raised by assessment upon the Polls and Estates of the Inhabitants of the City of Cambridge and the Estates of non-resident proprietors, according to law, to defray the current expenses of the city, for the Financial year beginning December 1, 1891, and ending November 30, 1892.

City of Cambridge,
In Common Council, Feb. 16, 1892.

*Ordered*, That the sums following be and are hereby appropriated towards defraying the expenses of the City of Cambridge for the Financial year beginning December 1, 1891, and ending November 30, 1892: —

| | |
|---|---|
| For Assessor's Department | $10,300 00 |
| Auditor's Department | 3,200 00 |
| Bridges (Harvard) | 7,158 84 |
| Bridges (West Boston, Craigie's and Prison Point) | 8,700 00 |
| Cambridge Cemetery | 17,000 00 |
| Cambridge Public Library | 14,000 00 |
| City Clerk's Department | 5,900 00 |
| City Messenger's Department | 2,600 00 |
| City Treasurer's Department | 12,500 00 |
| Civil Service Department | 225 00 |
| Clerk of Committees' Department | 3,500 00 |
| Election Expenses: | |
| City Clerk | 4,800 00 |
| Superintendent of Public Buildings | 600 00 |
| Registrars of Voters | 3,100 00 |
| Engineering Department | 9,500 00 |
| Executive Department | 4,500 00 |
| Fire Department | 61,000 00 |
| Health Department | 4,500 00 |
| Incidental Expenses | 25,000 00 |
| Inspection of Milk and Vinegar | 1,000 00 |
| Inspection of Wires | 12,000 00 |
| Interest | 135,000 00 |
| Law Department | 3,000 00 |
| Lighting Streets | 65,000 00 |
| Overseers of the Poor: | |
| Almshouse | 22,000 00 |
| Farm and Ledge | 8,000 00 |
| House Offal | 19,500 00 |
| Outside Aid | 35,000 00 |
| Salary of Assistant City Physician | 1,500 00 |
| Police Department | 104,500 00 |
| Public Property: | |
| City Buildings, Care and Repairs | 21,000 00 |
| New Engine House in Ward Three | 20,000 00 |
| School Houses, Care and Repairs | 44,000 00 |
| Harvard Grammar School, Fire Escapes | 1,500 00 |
| School Houses, New, and Furniture, New High School Building, etc. | 63,043 66 |
| Repairs on Old High School Building | 15,000 00 |
| School Houses, Morse School House Grading | 500 00 |
| Incidentals | 2,700 00 |
| *Amount carried forward* | $772,327 50 |

| | |
|---|---|
| *Amount brought forward* | $772,327 50 |
| School Department: | |
| Incidental Expenses | 750 00 |
| Salaries | 207,000 00 |
| Text-books and Supplies | 13,000 00 |
| Sealer of Weights and Measures | 1,300 00 |
| Sewers: | |
| Construction, Sundry Sewers | 20,000 00 |
| Maintenance | 30,000 00 |
| Sinking Funds | 91,770 00 |
| State Aid | 24,000 00 |
| Stationery and Printing | 2,500 00 |
| Street Department: | |
| Bridges, Construction | 9,500 00 |
| Bridges, Maintenance | 3,500 00 |
| Construction, First Street | 19,500 00 |
| Construction, Huron Street | 16,000 00 |
| Construction and Maintenance, Belmont District | 10.000 00 |
| Construction, Front Street, Filling and Grading | 9,140 65 |
| Widening, Inman Street | 1,142 00 |
| Widening, North Avenue | 4,931 56 |
| Maintenance | 115,000 00 |
| Paving, Cambridge Street | 12,000 00 |
| Paving, Sundry Streets | 6,000 00 |
| Paving, Edgestones, etc. | 30,000 00 |
| Shade Trees and Public Grounds | 6,000. 00 |
| Watering | 21,000 00 |
| Water Works: | |
| Construction | 70,000 00 |
| Construction Fresh Pond Land Account | 125,000 00 |
| Construction Stony Brook Water Supply | 75,000 00 |
| Interest | 93,225 00 |
| Maintenance | 45,000 00 |
| Rates, Fines, "Abatements" | 3,000 00 |
| Rates, Fines, "Refunds" | 2,000 00 |
| Sinking Fund | 62,397 50 |
| Supplies | 7,000 00 |
| Supplies, Abatements | 100 00 |
| | $1,909,084 21 |

These estimates were adopted by the City Council as reported by the Committee, the net sum which the assessors were required to raise by assessment upon the polls and estates of the inhabitants of Cambridge, being the amount stated in paragraph No. 3 of the foregoing recommendation, viz.: —

| | |
|---|---|
| | $1,067,466 48 |
| The assessors added the sum of | 171,054 76 |
| Making the total amount of the warrant | $1,238,521 24 |

These additions are given in detail in the report of the City Auditor.

Besides these regular appropriations as stated before the following special appropriations were made from time to time during the year on recommendation of this Committee, viz. :—

| | |
|---|---|
| Old High School House, furnishings and fittings | $1,900 00 |
| Wellington School House, enlargement | 20,500 00 |
| Edgestones and Sidewalks | 50,000 00 |
| Total | $72,400 00 |

The first of these additional amounts was met from surplus revenue otherwise unappropriated, and the amount of the other two, except the sum of $500.00, by the creation of city loans.

Of the appropriations reported at the beginning of the year many were subsequently reënforced by transfers and by the addition of surplus revenue, as exigencies required, the total amount so added being $25,018.28.

The following statement shows the total appropriations for City Department accounts during the year:

| | |
|---|---|
| Amount reported Feb. 16, 1892 | $1,426,361 71 |
| Subsequent additions: | |
| For Furnishing Old High School House | 1,900 00 |
| Amount to be met by City Loan | 70,500 00 |
| Amount to be met from Surplus Revenue | 25,018 28 |
| Total amount of City Department appropriations in 1892 | $1,523,779 99 |

The appropriations for the Water Department, as originally reported, were also increased during the year, by orders reported by this Committee, as follows:

| | |
|---|---|
| Total amount of appropriation as reported Feb. 16 | $482,722 50 |
| Additional | 76,239 64 |
| Grand total | $558,962 14 |

Of the amount so added the sum of $75,000.00 was authorized to be provided for by a City Water Loan.

The city loans recommended by this Committee, including those reported in the annual budget, were as follows:

*City Department Loans.*

| | | |
|---|---|---|
| Building Loan, New Engine House, etc. . . | $20,000 00 | |
| Street Loan, Construction of Streets . . . | 55,000 00 | |
| Street Loan, Paving, Edgestones, etc. . . . | 50,000 00 | |
| Building Loan, Wellington School House . . | 20,500 00 | |
| Total . . . . . | | $145,500 00 |

*Water Department Loans.*

| | | |
|---|---|---|
| Water Works, Construction . . . . . | $270,000 00 | |
| Water Works, Construction, additional . . | 75,000 00 | |
| | | $345,000 00 |
| Total amount of bonds recommended to be issued . . . . . | | $490,500 00 |

Full particulars in reference to the dates and length of time of these bonds, and the negotiation of the same, may be found in the reports of the Auditor and Treasurer.

A sub-committee, consisting of Alderman Howland, President Chase of the Common Council, and Councilman Russell, was appointed to examine the condition of the City Treasury at the close of business on Wednesday, November 30. The following is their report:

CITY OF CAMBRIDGE, Dec. 16, 1892.

*To the Committee on Finance:*

The sub-committee appointed to count and examine the cash in the hands of the Treasurer at the close of business on Nov. 30, 1892, would respectfully report.

| | | |
|---|---|---|
| Nov. 30, 1892. Actual cash in Treasurer's office was . . . . . | | $1,359 09 |
| A certificate from W. A. Bullard, Cashier of First National Bank of Cambridge, showing a balance to the credit of the Treasurer of . . | $198,705 71 | |
| From this balance should be deducted checks given by the Treasurer prior to Nov. 30, 1892, but not received by the Bank, amounting to | 5 71 | |
| Leaving a balance in Bank, as shown by Treasurer's books of . . . . . | | 198,699 97 |
| Making the total cash on hand . . . . | | $200,059 06 |
| Dec. 16, 1892. After certain additional entries were made, belonging to the Financial year of 1892, your committee found receipts and expenditures as follows: | | |
| *Amount carried forward* . . . . . | | $200,059 06 |

| | | |
|---|---|---|
| *Amount brought forward* . . . . | | $200,059 06 |
| RECEIPTS. | | |
| For account of Water Works, Rates, Fines, etc. — an amount required to correct error in footings, date of June 13, 1892 . . . . | 10 | |
| From Com. of Mass. Pauper Dept., Outside Aid | 460 20 | |
| Pauper Dept., Almshouse | 214 44 | |
| State Aid . . . . | 13,598 00 | |
| Corporation Tax . . | 58,242 44 | |
| National Bank Tax, being amount received for stocks of Massachusetts Banks outside of Cambridge, owned by Cambridge residents . . . . . | 17,922 78 | |
| Total . . . . . | | 90,437 96 |
| Which amount added to the Treasurer's balance of Nov. 30, 1892, makes a total of . . . | | $290,497 02 |
| EXPENDITURES. | | |
| Authorized additional payments as of November 30, 1892, and verified by the Auditor's books, as follows: | | |
| Pay rolls for the last three days of November, 1892 | $3.869 35 | |
| State Tax for the year 1892 . . . . | 54,495 00 | |
| National Bank Tax, refunding of Taxes on non-resident owners . . . . . | 6,791 94 | |
| Surplus in running account of the Water Works paid to the Trustees of the Water Loan Sinking Fund . . . . . | 28,021 44 | |
| Metropolitan Sewer Tax, being amount paid on account of the Metropolitan Sewer for Sinking Fund thereof, Assessment of Cambridge for the year 1892 . . . . . | 6,809 57 | $99,987 30 |
| Showing a balance of cash in the Treasurer's hands as of Nov. 30, 1892, of . . . | | $190,509 72 |
| In addition to the foregoing account we found a certificate of W. A. Bullard, Cashier of the First National Bank of Cambridge, that the City Treasurer had in said Bank a *Special Deposit* of . . . . . | | $31,066 75 |
| which represents amounts recorded as paid on the Auditor's and Treasurer's books, but which are held in suspense. Of this amount $29,066.75 is held to the credit of J. E. Giddings & Son, contractors for the New High School House, awaiting the decision of the Courts . . . . . | $29,066 75 | |
| *Amount carried forward* . . . . . | $29,066 75 | |

| | | |
|---|---|---|
| *Amount brought forward* . . . . . | $29,066 75 | |
| and $2,000 is held for the payment of Water Loan Bonds which matured July 1, 1892, but not yet presented for payment . . . | 2,000 00 | |
| | | 31,066 75 |
| Your committee would further state that we carefully examined the drafts made by the Mayor, during the year, on the Treasurer, and found the amount in the aggregate to be . | $2,953,128 49 | |
| All the foregoing amounts are named in the Treasurer's Report, and are also verified by the accounts on the Auditor's books as follows: | | |
| Amount of Mayor's drafts as per sheet of City Auditor, date of Dec. 10, 1892 . . . | | $2,955,255 17 |
| Actual amount of Mayor's drafts made on City Treasurer as by his report and books, which drafts were received by him in the Financial year ending Nov. 30, 1892 . . . . | $2,953,128 49 | |
| From the above subtract amount of Mayor's draft No. 118, date of Dec. 9, 1891, the same being for payment of bills of November, 1891, and paid in the Financial year of 1892 . . | 59,929 52 | |
| | $2,893,198 97 | |
| To this amount add amount of Mayor's draft No. 118, date of Dec. 10, 1892, the same being for payment of bills of November, 1892, and paid in the Financial year of 1893 . . | 62,056 20 | |
| | | $2,955,255 17 |
| The difference between the Treasurer's and Auditor's books being that the Treasurer in his accounts includes the last month of the last Financial year and excludes the last month of the present Financial year. | | |
| Your committee also examined the "Trust Fund" called the "Cemetery Fund," for the perpetual care of lots in the Cambridge Cemetery, the assets of which are in the custody of the City Treasurer, verifying the investments thereof, which are as follows: | | |
| Book No. 21,926 in Cambridgeport Savings Bank, amount of deposit . . . . | $1,379 63 | |
| Book No. 25,715 in Cambridgeport Savings Bank, amount of deposit . . . . | 7,402 85 | |
| Book No. 21,716 in Cambridge Savings Bank, amount of deposit . . . . . | 1,165 48 | |
| City of Cambridge bonds at par amounting to . | 16,000 00 | |
| Total assets as of November 30, 1892 . | | $25,947 96 |

WILLIAM R. HOWLAND,
HERBERT A. CHASE,
J. HENRY RUSSELL,
} *Sub-Committee.*

The comparative tables in reference to the polls and valuations of the city, heretofore incorporated in the annual reports of this Committee, are omitted herefrom, inasmuch as the same information, in fuller detail, will be given in the report of the City Auditor, and the same are outside of the scope of the duties of the Committee on Finance.

In the preparation of this report, it was the purpose of the Committee to give a brief review only of such financial transactions as were shaped mainly through its recommendations to the City Council. The details of the expenditure of the money appropriated during the year, are given in full in the reports of the Auditor and Treasurer.

WM. A. BANCROFT,
WILLIAM E. DOYLE,
E. BURT PHILLIPS,
W LLIAM R. HOWLAND,
HERBERT A. CHASE,
J. HENRY RUSSELL,
BANCROFT G. DAVIS,
WALTER H. LERNED,
JOHN H. POND,
WILLIAM F. McCORMICK,
*Committee on Finance.*

# REPORT OF THE CITY TREASURER.

OFFICE OF CITY TREASURER, Dec. 1, 1892.

*To the Honorable the City Council:* —

I HEREWITH submit my fifteenth annual report as City Treasurer covering the year ending November 30, 1892.

| | | |
|---|---|---|
| Said report shows that the cash balance in the city treasury November 30, 1891, was . . . . . | | $165,865 99 |
| That the amount received into the treasury during the year ending November 30, 1892, from all sources, was . . . | | 2,977,772 22 |
| | | $3,143,638 21 |
| The authorized payments during the year amounted to . . | $2,953,128 49 | |
| Leaving a balance in the treasury November 30, 1892, of . . | | 190,509 72 |

Respectfully submitted,

WM. W. DALLINGER,

*City Treasurer.*

CITY OF CAMBRIDGE IN ACCOUNT CURRENT FROM DECEMBER 1, 1891, T

*Dr.*

| | |
|---|---|
| To authorized payments charged to City Accounts as follows: | |
| Abatements (Taxes) | $23,647 67 |
| Assessor's Department | 10,608 6 |
| Auditor's Department | 3,148 2 |
| Bridge (Harvard) | 10,156 17 |
| Bridges (West Boston, Craigie's and Prison Point) | 12,568 51 |
| Cambridge Cemetery | 16,287 44 |
| Cambridge Public Library | 12,100 92 |
| Cemetery Fund | 1,885 98 |
| City Clerk's Department | 5,951 29 |
| City Messenger's Department | 2,534 59 |
| City Treasurer's Department | 11,580 09 |
| Civil Service Department | 211 36 |
| Clerk of Committees' Department | 3,445 8 |
| Election Expenses (City Clerk) | 2,932 14 |
| Election Expenses (Public Property) | 914 9 |
| Election Expenses (Registrars of Voters) | 1,318 0 |
| Election Expenses and Registrars of Voters | 4,072 6 |
| Engineering Department | 9,906 7 |
| Executive Department | 4,304 |
| Fire Department | 61,323 |
| Health Department | 4,994 9 |
| Incidental Expenses | 7,489 13 |
| Interest | 134,036 63 |
| Inspection of Milk and Vinegar | 1,003 04 |
| Inspection of Wires | 13,191 63 |
| Law Department | 3,045 59 |
| Lighting Streets | 62,696 27 |
| Loan (Temporary) | 516,000 00 |
| Loan (Water) | 335,000 00 |
| Pauper Department (Outside Aid) | 35,776 35 |
| Pauper Department (Almshouse) | 21,371 05 |
| Pauper Department (Farm and Ledge) | 7,970 31 |
| Pauper Department (House Offal) | 22,096 76 |
| Pauper Department (Salary, Assistant City Physician) | 1,500 00 |
| Police Department | 105,444 46 |
| Public Property (City Buildings — Care and Repairs) | 21,028 39 |
| Public Property (Incidental Expenses) | 3,430 00 |
| Public Property (Old High School House — Furnishings and Fittings) | 1,899 12 |
| Public Property (Old High School House) | 16,496 23 |
| Public Property (New Engine House, Ward 3) | 13,306 44 |
| Public Property (Wellington School House) | 8,550 00 |
| Public Property (School Houses — Care and Repairs) | 49,022 59 |
| Public Property (New High School House) | 67,540 95 |
| Public Property (New School House, Ward 4) | 570 90 |
| School Department (Incidental Expenses) | 891 70 |
| School Department (Salaries) | 211,354 97 |
| School Department (Text-books and Supplies) | 13,154 94 |
| Sealer of Weights and Measures | 1,786 98 |
| Sewers (Construction) | 18,870 98 |
| Sewers (Maintenance) | 24,427 97 |
| Sinking Funds | 91,770 00 |
| State Aid | 25,222 38 |
| Stationery and Printing | 2,714 29 |
| Street Department (Bridges, Construction) | 6,447 90 |
| Street Department (Bridges, Maintenance) | 3,309 01 |
| Street Department (Care and Maintenance, Belmont District) | 10,985 46 |
| Street Department (Filling and Grading Front Street) | 2,977 83 |
| Street Department (Extension First Street) | 19,153 19 |
| Street Department (Extension Huron Street) | 4,315 93 |
| Street Department (Extension North Avenue) | 521 00 |
| Street Department (Maintenance) | 115,653 79 |
| Street Department (Paving) | 73,524 94 |
| Street Department (Paving Cambridge Street) | 10,520 11 |
| Street Department (Paving Central Square) | 4,584 52 |
| Street Department (Shade Trees and Public Grounds) | 7,141 66 |
| Street Department (Watering) | 21,382 24 |
| Street Department (Widening Inman Street) | 1,000 00 |
| Tax (Corporation) | 15 07 |
| Tax (County) | 60,845 07 |
| Tax (Metropolitan Sewer) | 6,809 57 |
| Tax (National Bank) | 7,459 69 |
| Tax (State) | 54,495 00 |
| Tax Sale Surplus | 152 50 |
| Water Works (Construction) | 81,919 70 |
| Water Works (Construction Fresh Pond Land Account) | 106,199 71 |
| Water Works (Construction Stony Brook Water Supply) | 71,774 9 |
| Water Works (Interest on Loan) | 88,165 00 |
| Water Works (Maintenance) | 49,105 08 |
| Water Works (Rates, Fines, etc., — Abatements) | 3,003 35 |
| Water Works (Rates, Fines, etc., — Refunds) | 1,485 42 |
| Water Works (Sinking Funds) | 90,218 94 |
| Water Works (Supplies) | 7,367 54 |
| Water Works (Supplies — Abatements) | 40 98 |
| Total payments | $2,953,128 49 |
| Cash Balance in Treasury November 30, 1892 | 190,509 72 |
| | $3,143,638 21 |

NOVEMBER 30, 1892 (INCLUSIVE), WITH WM. W. DALLINGER, *City Treasurer.*

*Cr.*

| | |
|---|---|
| Receipts as follows: | |
| Betterments (Front Street) | $5,797 79 |
| Bridges (West Boston, Craigie's and Prison Point) | 470 44 |
| Cambridge Cemetery | 19,517 33 |
| Cambridge Public Library | 4,149 88 |
| Cemetery Fund | 1,885 98 |
| City Clerk's Department | 2,708 79 |
| City Treasurer's Department | 1,457 58 |
| Fire Department | 16 60 |
| Incidental Expenses | 6,042 60 |
| Interest | 6,342 35 |
| Inspection of Milk and Vinegar | 148 50 |
| Inspection of Wires | 199 18 |
| Law Department | 1,502 50 |
| Lighting Streets | 6 50 |
| Loan (Building) | 20,000 00 |
| Loan (Paving) | 50,000 00 |
| Loan (School House) | 20,000 00 |
| Loan (Street) | 55,000 00 |
| Loan (Temporary) | 516 000 00 |
| Loan (Water) | 270,000 00 |
| Pauper Department (Outside Aid) | 3,743 97 |
| Pauper Department (Almshouse) | 2,319 32 |
| Pauper Department (Farm and Ledge) | 10 592 16 |
| Pauper Department (House Offal) | 7,535 57 |
| Police Department | 5,336 00 |
| Public Property (City Buildings — Care and Repairs) | 2,915 74 |
| Public Property (New Engine House Ward 3) | 720 00 |
| Public Property (School Houses — Care and Repairs) | 14 74 |
| School Department (Salaries) | 1,738 07 |
| School Department (Text-books and Supplies | 300 00 |
| Sealer of Weights and Measures | 697 59 |
| Sewers (Construction) | 12,716 34 |
| Sewers (Maintenance) | 1,458 62 |
| State Aid | 13,732 50 |
| Stationery and Printing | 575 63 |
| Street Department (Bridges, Maintenance) | 114 62 |
| Street Department (Extension First Street) | 2,500 00 |
| Street Department (Maintenance) | 3,215 58 |
| Street Department (Paving) | 18,376 78 |
| Street Department (Shade Trees and Public Grounds) | 95 35 |
| Street Department (Watering) | 13,914 05 |
| Tax (Corporation) | 64,726 00 |
| Tax (National Bank) | 18,049 21 |
| Tax Lien Account | 1,529 40 |
| Tax Sale Surplus | 230 44 |
| Taxes (1889) | 248 80 |
| Taxes (1890) | 1,483 16 |
| Taxes (1891) | 100,269 62 |
| Taxes (1892) | 1,100,064 40 |
| Water Works (Construction) | 9,760 00 |
| Water Works (Construction Fresh Pond Land Account) | 5,712 50 |
| Water Works (Construction Stony Brook Water Supply) | 4,983 35 |
| Water Works (Interest on Loan) | 925 01 |
| Water Works (Maintenance) | 413 50 |
| Water Works (Rates, Fines, etc.) | 243,474 81 |
| Water Works (Trustees of Sinking Funds of) | 335,000 00 |
| Water Works (Supplies) | 7,043 37 |
| Total receipts | $2,977,772 22 |
| Cash Balance in Treasury, November 30, 1891 | 165,865 99 |
| | $3,143,638 21 |

SALE OF BONDS.

During the year it has become my duty under three different orders passed by the City Council to bargain and sell bonds of the City. In every case proposals were invited by advertisement in the Boston Daily Advertiser, and by circulars sent to many Banks and Bankers, and the bonds were sold to the highest bidders. The first sale was made January 30, 1892, at which time $150,000.00 of four per cent. twenty year water bonds were sold to Blake Bros. & Co., of Boston, for *four and fifty-seven-hundredths per cent. premium.* The second sale was made May 21, at which time $75,000.00 of twenty year four per cent. water bonds, $55,000.00 "Street Loan," ten year four per cent., and $20,000.00 "Building Loan," ten year four per cent. bonds were sold to Blake Bros. & Co., for a premium *for the twenty year bonds of six and nine one-hundredths per cent.* and for the *ten year bonds of three and twenty-six one-hundredths per cent.* The third sale was made November 22, at which time $45,000.00 Water, twenty year four per cent. bonds, $50,000.00 "Paving Loan," ten year four per cent., and $20,000.00 "School House Loan," ten year four per cent. bonds, were sold to Brewster, Cobb & Estabrook, of Boston, for *a premium of three and fifteen one-hundredths per cent.*, for the entire lot of $115,000.00.

The total face amount of bonds sold during the year, was $415,000.00.

Respectfully submitted,

WM. W. DALLINGER,

*City Treasurer.*

# REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS OF THE CITY OF CAMBRIDGE.

---

*To the Honorable the City Council : —*

THE undersigned Commissioners of the Sinking Funds of the city herewith present their seventeenth annual report, covering the year ending November 30, 1892.

*Dr.*

| | | |
|---|---|---|
| The amount of the Funds November 30, 1891 . . | $651,826 93 | |
| Amount received from the City of Cambridge as the annual appropriation for 1892 . . . . | 91,405 00 | |
| Amount of interest received on invested funds . | 31,164 73 | |
| | | $774,396 66 |

*Cr.*

| | | |
|---|---|---|
| Amount paid as accrued interest on investments purchased . . . . . | 1,577 85 | |
| Amount paid as premium on investments purchased | 538 80 | |
| Leaving the amount of the Funds November 30, 1892 | 772,280 01 | |
| | | $774,396 66 |

SECURITIES BELONGING TO THE SINKING FUNDS, NOV. 30, 1892.

| | |
|---|---|
| Cambridge City Loan, five per cent. bonds, maturing Jan. 1, 1893 . . . . . | 27,000 00 |
| Cambridge Paving Loan, six per cent. bonds, maturing July 1, 1893 . . . . . | 23,000 00 |
| Cambridge Land Loan, six per cent. bonds, maturing July 1, 1893 . . . . . | 4,000 00 |
| Cambridge Street Loan, six per cent. bonds, maturing July 1, 1893 . . . . . | 4,000 00 |
| Cambridge Paving Loan, six per cent. bonds, maturing July 1, 1894 . . . . . | 2,000 00 |
| Cambridge Sewer Loan, six per cent. bonds, maturing July 1, 1896 . . . . . | 11,000 00 |
| Cambridge Street Widening Loan, six per cent. bonds, maturing July 1, 1904 . . . . | 90,000 00 |
| Cambridge Sewer Loan, six per cent. bonds, maturing July 1, 1904 . . . . . | 2,000 00 |
| Cambridge Street Widening Loan, six per cent. bonds, maturing July 1, 1905 . . . . | 14,000 00 |
| *Amount carried forward* . . . . . | $177,000 00 |

| | | |
|---|---|---|
| *Amount brought forward* . . . . . | $177,000 00 | |
| Cambridge Sewer Loan, six per cent. bonds, maturing July 1, 1905 . . . . . | 49,000 00 | $226,000 00 |
| City of Boston, six per cent. bonds, maturing Jan. 1, 1893 . . . . . | 6,000 00 | |
| Boston & Maine R. R., seven per cent. bonds, maturing Jan. 1, 1893 . . . . . | 15,500 00 | |
| Town of Brookline, $3\frac{65}{100}$ per cent. bonds, maturing Feb. 1, 1893 . . . . . | 8,000 00 | |
| City of Cleveland, four per cent. bonds, maturing April 1, 1893 . . . . . | 2,000 00 | |
| Boston, Barre & Gardner R. R., five per cent. bonds, maturing April 1, 1893, . . . . . | 28,000 00 | |
| Conn. & Passumsic R. R., seven per cent. bonds, maturing April 1, 1893 . . . . . | 22,000 00 | |
| City of Concord, N. H., $4\frac{1}{4}$ per cent. bonds, maturing April 27-30, 1893 . . . . . | 50,000 00 | |
| City of Chicago, Ill., seven per cent. bonds maturing July 1, 1893 . . . . . | 1,000 00 | |
| City of Charlestown, six per cent. bonds, maturing July 1, 1893 . . . . . | 1,000 00 | |
| City of Fitchburg, six per cent. bonds, maturing July 1, 1893 . . . . . | 2,000 00 | |
| Town of Brookline, four per cent. bonds, maturing July 1, 1893 . . . . . | 3,000 00 | |
| City of Brockton, four per cent. bonds, maturing July 1, 1893 . . . . . | 2,500 00 | |
| City of Cleveland, four per cent. bonds, maturing Oct. 1, 1893 . . . . . | 3,000 00 | |
| Town of Hyde Park, four per cent. bonds, maturing Nov. 1, 1893 . . . . . | 2,000 00 | |
| Town of Brookline, $3\frac{65}{100}$ per cent. bonds, maturing Feb. 1, 1894 . . . . . | 7,000 00 | |
| Town of Brookline, four per cent. bonds, maturing July 1, 1894 . . . . . | 3,000 00 | |
| City of Keene, N. H., four per cent. bonds, maturing July 1, 1894 . . . . . | 2,000 00 | |
| City of Brockton, four per cent. bonds, maturing July 1, 1894 . . . . . | 2,500 00 | |
| Town of Hyde Park, four per cent. bonds, maturing Nov. 1, 1894 . . . . . | 2,000 00 | |
| City of Fitchburg, four per cent. bonds, maturing Nov. 1, 1894 . . . . . | 3,500 00 | |
| Town of Brookline, $3\frac{65}{100}$ per cent. bonds, maturing Feb. 1, 1895 . . . . . | 1,000 00 | |
| City of Brockton, four per cent. bonds, maturing July 1, 1895 . . . . . | 2,500 00 | |
| *Amounts carried forward* . . . . . | $169,500 00 | $226,000 00 |

| | | |
|---|---|---|
| *Amounts brought forward* . . . . . | $169,500 00 | $226,000 00 |
| City of Keene, N. H., four per cent. bonds, maturing July 1, 1895 . . . . . | 1,000 00 | |
| City of Dayton, four per cent. bonds, maturing Oct. 1, 1895 . . . . . | 7,000 00 | |
| Town of Hyde Park, four per cent. bonds, maturing Nov. 1, 1895 . . . . . | 2,000 00 | |
| City of Dayton, four per cent. bonds, maturing Oct. 1, 1896 . . . . . | 7,000 00 | |
| Town of Hyde Park, four per cent. bonds, maturing Nov. 1, 1896 . . . . . | 2,000 00 | |
| City of Fitchburg, four per cent. bonds, maturing Nov. 1, 1896 . . . . . | 2,000 00 | |
| City of Waltham, four per cent. bonds, maturing Jan. 1, 1897 . . . . . | 6,000 00 | |
| City of New Bedford, 3½ registered bond, maturing April 1, 1897 . . . . . | 15,000 00 | |
| City of Dayton, four per cent. bonds, maturing Oct. 1, 1897 . . . . . | 7,000 00 | |
| Town of Hyde Park, four per cent. bonds, maturing Nov. 1, 1897 . . . . . | 2,000 00 | |
| City of Fitchburg, 3½ per cent. registered bond, maturing April 1, 1898 . . . . . | 10,000 00 | |
| City of Cleveland, 4 per cent. bonds, maturing Sept. 1, 1898 . . . . . | 1,000 00 | |
| City of Dayton, four per cent. bonds, maturing Oct. 1, 1898 . . . . . | 4,000 00 | |
| City of Providence, 4½ per cent. bonds, maturing June 1, 1899 . . . . . | 64,000 00 | |
| City of Cleveland, $3\frac{65}{100}$ per cent. bonds, maturing Sept. 1, 1902 . . . . . | 1,000 00 | |
| City of Lawrence, four per cent. bonds, maturing July 1, 1904 . . . . . | 12,000 00 | |
| City of Pawtucket, four per cent. bonds, maturing July 1, 1904 . . . . . | 15,000 00 | |
| Town of Hopkinton, four per cent. bonds, maturing Sept. 30, 1904 . . . . . | 5,000 00 | |
| City of Pawtucket, four per cent. bonds, maturing July 1, 1909 . . . . . | 30,000 00 | |
| Town of Beverly, four per cent. bonds, maturing July 1, 1911 . . . . . | 9,000 00 | |
| City of Brockton, 3½ per cent. bonds, maturing July 1, 1916 . . . . . | 5,000 00 | 376,500 00 |
| | | 602,500 00 |
| Cash in banks on interest . . . . | | 169,780 01 |
| | | $772,280 01 |

The bonded city debt, which the foregoing Sinking Funds are to pay, matures as follows, viz. : —

| | |
|---|---|
| Jan. 1, 1893, City Loan bonds, five per cent. gold | $150,000 00 |
| July 1, 1893, Land Loan bonds, six per cent. | 10,000 00 |
| July 1, 1893, Paving Loan bonds, six per cent. | 100,000 00 |
| July 1, 1893, Street Loan bonds, six per cent. | 13,000 00 |
| July 1, 1894, Paving Loan bonds, six per cent. | 130,000 00 |
| April 1, 1895, Municipal Loan bonds, four per cent. | 200,000 00 |
| July 1, 1895, Paving Loan bonds, six per cent. | 25,000 00 |
| Oct. 1, 1895, Sewer Loan bonds, six per cent. | 20,000 00 |
| July 1, 1896, Sewer Loan bonds, six per cent. | 29,000 00 |
| Nov. 1, 1896, Sewer Loan bonds, six per cent. | 25,000 00 |
| Aug. 1, 1898, City Hall Land Loan bonds, four per cent. | 83,000 00 |
| Nov. 1, 1899, Street Widening Loan bonds, four per cent. | 8,000 00 |
| May 1, 1900, High School Loan bonds, four per cent. | 100,000 00 |
| Jan. 1, 1901, High School Loan bonds, four per cent. | 100,000 00 |
| July 1, 1901, High School Loan bonds, four per cent. | 10,000 00 |
| July 1, 1901, School House Loan bonds, four per cent. | 50,000 00 |
| July 1, 1901, Bridge Loan bonds, four per cent. | 15,000 00 |
| May 2, 1902, Street Loan bonds, four per cent. | 55,000 00 |
| May 2, 1902, Building Loan bonds, four per cent. | 20,000 00 |
| Nov. 1, 1902, Paving Loan bonds, four per cent. | 50,000 00 |
| Nov. 1, 1902, School House Loan bonds, four per cent. | 20,000 00 |
| July 1, 1903, Sewer Loan bonds, six per cent. | 136,000 00 |
| July 1, 1903, Street Widening Loan bonds, six per cent. | 10,000 00 |
| July 1, 1904, Sewer Loan bonds, six per cent. | 295,000 00 |
| July 1, 1904, Street Widening Loan bonds, six per cent. | 90,000 00 |
| July 1, 1905, Sewer Loan bonds, six per cent. | 144,000 00 |
| July 1, 1905, Street Widening Loan bonds, six per cent. | 14,000 00 |
| Aug. 1, 1905, Cemetery Loan bond, four per cent. | 65,000 00 |
| Nov. 1, 1907, Sewer Loan bonds, four per cent. | 30,000 00 |
| Nov. 1, 1909, Sewer Loan bonds, four per cent. | 22,000 00 |
| May 1, 1910, Sewer Loan bonds, four per cent. | 15,000 00 |
| July 1, 1911, Sewer Loan bonds, four per cent. | 15,000 00 |
| Oct. 1, 1917, Harvard Bridge Loan bond, four per cent. | 10,000 00 |
| July 1, 1918, Harvard Bridge Loan bonds, four per cent. | 100,000 00 |
| Sept. 1, 1918, Harvard Bridge Loan bonds, four per cent. | 50,000 00 |
| Sept 1, 1918, Harvard Bridge Loan bonds, four per cent. | 50,000 00 |
| March 1, 1919, Harvard Bridge Loan bonds, four per cent. | 90,000 00 |
| March 1, 1919, Harvard Bridge Loan bonds, four per cent. | 25,000 00 |
| Nov. 1, 1920, Harvard Bridge Loan bond, four per cent. | 5,000 00 |
| July 1, 1921, Harvard Bridge Loan bonds, four per cent. | 60,000 00 |
| | $2,439,000 00 |

CAMBRIDGE, Dec. 22, 1892.

*To the Commissioners of the Sinking Funds of the City of Cambridge: —*

Your Committee appointed to Audit the accounts of the Treasurer of the Funds respectfully reports that it has attended to that duty, and after a careful and thorough examination of his books and vouchers, finds every item of receipts and payments, cash, bonds, interest and premium properly vouched for and his books accurately kept. The funds at the present time amount to:

| | |
|---|---|
| Bonds . . . . . | $602,500 00 |
| Cashier's certificate of Deposit in First National Bank of Cambridgeport . . . . . | 119,780 01 |
| Cashier's Certificate of Deposit in Cambridge National Bank . | 50,000 00 |
| | $772,280 01 |

FRANK A. ALLEN, } *Auditing*
JOHN C. BULLARD, } *Committee.*

The funded debt of the city has increased $145,000.00 during the year, for which City Bonds (four per cents.) have been issued for the following purposes and amounts, viz:

For Street Loan (building and widening) $55,000.00, and for Building Loan $20,000.00, both dated May 2, 1892, and payable in ten years. For Paving Loan $50,000.00 and for School House Loan $20,000.00, both dated November 1, 1892, and payable in ten years. As no portion of the debt became due this year, the Fund has increased since our last report, $120,453.08. There will mature January 1, 1893, City Bonds to the amount of $150,000.00, and July 1st also $123,000.00, making $273,000.00, which will be paid from this Fund during the next year. The total amount of City Debt now outstanding is $2,439,000.00, from which deducting the present amount of assets of the Sinking Fund, at their par value ($772,280.-01), shows the net debt liability, November 30, 1892 (exclusive of the Water Debt), to be $1,666,719.99, or about 2¼ per cent. on the present property of the city. The valuation of the city as returned by the Assessors for 1892, is $74,240,095.00, and shows an increase over 1891, of $3,658,425.00. There will be due the Fund from tax-

ation for 1893, $103,700.00. The purchases and loans made by the sub-committee during the year ending November 30, 1892, amounted to $361,500.00.

Respectfully submitted,

CHAS. H. SAUNDERS,
JOS. A. HOLMES,
FRANK A. ALLEN,
GEO. H. HOWARD,
JOHN C. BULLARD,
ANDREW J. LOVELL,
*Commissioners of the Sinking Funds of the City of Cambridge.*

Cambridge, December 22, 1892.

# REPORT OF THE TRUSTEES OF THE SINKING FUND OF THE CAMBRIDGE WATER WORKS.

---

*To the Honorable the City Council :—*

THE undersigned Trustees of the Sinking Fund of the Cambridge Water Works herewith submit their annual report of the Fund committed by law to their charge.

*Dr.*

| | | |
|---|---|---|
| The amount of the Fund at last report, November 30, 1891, was | $814,319 45 | |
| Received during the year as follows: | | |
| From the City Treasurer of Cambridge the Sinking Fund requirement for the year being a part of the Water rates | 62,177 50 | |
| From the City Treasurer, the *surplus* remaining at the close of the year in the maintenance accounts of the Water Works | 28,021 44 | |
| From interest on investments | 31,755 45 | |
| From premium on investments sold | 2,027 10 | |
| | | $938,300 94 |

*Cr.*

| | | |
|---|---|---|
| Amount paid the City Treasurer to meet maturing Water Loan Bonds, July 1, 1892 | $335,000 00 | |
| Amount paid as accrued interest on investments purchased | 1,096 47 | |
| Amount paid as premium on investments purchased | 185 20 | |
| Balance representing the amount of the Fund November 30, 1892 | 602,019 27 | |
| | | $938,300 94 |

SECURITIES BELONGING TO THE SINKING FUND OF THE WATER WORKS NOVEMBER 30, 1892.

| | | |
|---|---|---|
| Cambridge Water Loan, six per cent. bonds, maturing April 1, 1894 | $1,000 00 | |
| Cambridge Water Loan, four per cent. bonds, maturing November 1, 1894 | 6,000 00 | |
| Cambridge Water Loan, six per cent. bonds, maturing April 1, 1895 | 37,000 00 | |
| Cambridge Water Loan, 3½ per cent. registered bonds, maturing after April 1, 1896 | 100,000 00 | |
| Cambridge Water Loan, 3½ per cent. registered bonds, maturing after July 1, 1896 | 75,000 00 | |
| Cambridge Water Loan, six per cent. bonds, maturing July 1, 1896 | 46,000 00 | |
| Cambridge Water Loan, six per cent. bonds, maturing July 1, 1897 | 16,000 00 | |
| Cambridge Water Loan, five per cent. bonds, maturing July 1, 1898 | 12,500 00 | |
| Cambridge Contingent Loan, four per cent. note, dated Dec. 1, 1883 | 200,000 00 | |
| Harvard Bridge Loan, 4 per cent. bond, maturing Nov. 1, 1920 | 5,000 00 | |
| | | $498,500 00 |
| City of Boston, four per cent. bonds, maturing Jan. 1, 1899 | $5,000 00 | |
| City of Lynn, four per cent. bonds, maturing July 1, 1899 | 11,000 00 | |
| City of Boston, four per cent. bonds, maturing April 1, 1900 | 4,000 00 | |
| City of Cleveland, $3\frac{65}{100}$ per cent. bonds, maturing Sept. 1, 1902 | 3,000 00 | |
| City of Providence, five per cent. bonds, maturing July 1, 1906 | 50,000 00 | |
| | | 73,000 00 |
| | | $571,500 00 |
| Cash in Bank on interest | | 30,519 27 |
| | | $602,019 27 |

The bonded water debt which the foregoing Fund is to pay, matures as follows, viz. : —

| | |
|---|---|
| April 1, 1894, six per cent. coupon | $150,000 00 |
| Nov. 1, 1894, four per cent. coupon | 36,000 00 |
| April 1, 1895, six per cent. coupon | 160,000 00 |
| April 1, 1896, 3½ per cent. registered (or to April 1, 1911) | 100,000 00 |
| July 1, 1896, six per cent. coupon | 103,000 00 |
| July 1, 1896, 3½ per cent. registered (or to July 1, 1911) | 75,000 00 |
| July 1, 1897, six per cent. coupon | 16,000 00 |
| July 1, 1898, five per cent. registered | 12,500 00 |
| Nov. 1, 1906, 3½ per cent. registered | 43,000 00 |
| Oct. 1, 1907, four per cent. registered | 75,000 00 |
| Oct. 1, 1907, four per cent. registered | 15,000 00 |
| Nov. 1, 1907, four per cent. registered | 22,000 00 |
| July 1, 1908, four per cent. coupon | 46,000 00 |
| Aug. 1, 1908, four per cent. coupon | 25,000 00 |
| Nov. 1, 1909, four per cent. coupon | 20,000 00 |
| May 1, 1910, four per cent. registered | 133,000 00 |
| May 1, 1910, four per cent. coupon | 155,000 00 |
| July 1, 1910, four per cent. coupon | 75,000 00 |
| Sept. 1, 1910, four per cent. coupon | 125,000 00 |
| Jan. 1, 1911, four per cent. coupon | 20,000 00 |
| Oct. 1, 1911, four per cent. coupon | 35,000 00 |
| Jan. 1, 1912, four per cent. coupon | 150,000 00 |
| May 2, 1912, four per cent. coupon | 75,000 00 |
| Nov. 1, 1912, four per cent. coupon | 45,000 00 |
| | $1,711,500 00 |

During the year the unusual amount of $335,000.00 of the old six per cents. has been paid, materially reducing the annual fixed charges of the Water Works. The Fund is in a strong condition to meet all of its possible requirements.

Respectfully,

ALPHEUS B. ALGER,
HERBERT A. CHASE,
WM. W. DALLINGER,
*Trustees of the Sinking Fund of the Cambridge Water Works.*

# REPORT OF THE TRUSTEES OF THE DOWSE INSTITUTE.

---

*To the Honorable the City Council of Cambridge: —*

The Board of Trustees of the Dowse Institute respectfully reports that a course of six lectures, with one reading and a concert, was given in Union Hall, Cambridgeport, beginning Nov. 10, 1891, and ending Dec. 29, 1891.

An attested copy of the accounts of the Treasurer is herewith transmitted, showing the amount of receipts and expenditures.

W. W. WELLINGTON,
FRANK A. ALLEN,
W. A. BULLARD,
HERBERT A. CHASE,
ALPHEUS B. ALGER,
} *Board of Trustees.*

---

W. A. BULLARD, TREASURER, IN ACCOUNT WITH DOWSE INSTITUTE.

*Dr.*

| | | | | |
|---|---|---|---|---|
| 1891 | To Balance . . . . . | | $291 19 | |
| | City of Cambridge, for one year's interest on fund . . . . . | | 600 00 | |
| | Sale of tickets to course of entertainments . | | 1,044 75 | |
| | | | | $1,935 94 |

*Cr.*

| 1891 | | | |
|---|---|---|---|
| Nov. 10 | By amount paid Edwin Arnold, for a lecture . | $400 00 | |
| 17 | " Paul B. Du Chaillu, for a lecture . | 100 00 | |
| 24 | " Remenyi Concert Co., for a concert | 200 00 | |
| Dec. 1 | " Roberts Harper, for a lecture . | 60 00 | |
| 8 | " Paul Bloniel (Max O'Rell), lecture | 100 00 | |
| 15 | " J. W. Churchill, for a reading . | 75 00 | |
| 22 | " Mary Gregory, for a lecture . | 60 00 | |
| 29 | " Henry A. Clapp, for a lecture . | 75 00 | |
| | " Stamped envelopes addressed . | 21 70 | |
| | " Geo. E. French, distrib. circulars . | 3 75 | |
| | " Fred L. Beunke, distrib. circulars | 3 15 | |
| | " S. W. Whittemore, distrib. circulars | 1 20 | |
| | " F. M. Buffum, distrib. circulars . | 13 50 | |
| | " Cambridge Press, for advertising . | 30 00 | |
| | " Cambridge Tribune, for advertising | 37 50 | |
| | " Cambridge Chronicle, advertising | 37 50 | |
| | " Cambridge News, for advertising . | 30 00 | |
| | " John Ford & Son, for printing . | 89 00 | |
| | " Harvard Printing Co., for printing | 3 00 | |
| | " Charles L. Russell, doorkeeper . | 8 00 | |
| | " F. M. Buffum, doorkeeper . . | 8 00 | |
| | " Albert Buffum, doorkeeper . . | 8 00 | |
| | " A. B. Bullard, ticket-seller . . | 8 00 | |
| | " Union Hall Assn., rent of hall . | 320 00 | |
| | Cash to balance account . . . | 243 64 | |
| | | | $1,935 94 |

ATTEST: W. A. BULLARD, *Treasurer.*

# REPORT OF THE TRUSTEES OF THE BRIDGE CHARITABLE FUND,

For the Financial Year Ending November 30, 1892.

---

In compliance with the requirements of Chapter 32 of the "Revised Ordinances of 1892," the Trustees of the Bridge Charitable Fund submit their sixteenth annual report.

| | | |
|---|---|---|
| The amount on deposit to the credit of the fund November 30, 1891, as stated in the last report, was | | $2,346 74 |
| Interest to July 19, 1892 | $94 80 | |
| Less two-thirds payable to the Overseers of the Poor, under the terms of the bequest | $63 20 | |
| Balance one-third of interest added to the fund | | 31 60 |
| Amount of the fund as of July 19, 1892 | | $2,378 34 |

The sum of $733.95, which constituted the nucleus of this fund, was bequeathed to the city by Mr. Levi Bridge, who died in the year 1876. The money was turned over to the city in September of that year by the Honorable John Sargent, to whom the duty had been entrusted by the donor.

The present Board of Trustees has complied with the terms of the bequest, in the payment of the surplus interest on the fund to the Overseers of the Poor. The net amount remaining in the fund is on deposit at the Cambridgeport Savings Bank.

ALPHEUS B. ALGER,
WILLIAM A. BANCROFT,
HERBERT A. CHASE,
*Trustees.*

# REPORT OF THE TRUSTEES OF THE SANDERS TEMPERANCE FUND.

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In compliance with the provisions of Chapter 33 of the "Revised Ordinances of 1892," this Board submits herewith its twenty-seventh annual report.

Beyond the statement of the fact that the present Board has complied with the terms of the bequest, in reference to the appointment of a missionary for the advancement of the cause of temperance in our city, there is little to add to what has been said in former reports.

The venerable missionary in this behalf, Mr. Alonzo Stewart, who has labored earnestly for many years in the work so dear to his heart, has been continued in service by this Board. In a supplementary report of his own he recites in glowing and hopeful language what he has accomplished in his efforts to carry out the intent of the fund.

Information as to the origin and history of this fund has been repeatedly given in former reports, to which reference may be made by those who desire such knowledge.

The amount of the fund is $10,000.00, and in accordance with the terms of the bequest the interest thereon has been paid quarterly to the missionary, in full compensation for his services.

ALPHEUS B. ALGER,
WILLIAM A. BANCROFT,
HERBERT A. CHASE,
*Trustees.*

# REPORT OF THE SANDERS TEMPERANCE FUND MISSIONARY.

---

East Cambridge, Jan. 1, 1893.

*To the Trustees of the Sanders Temperance Fund:* —

Gentlemen, — I herewith submit my report for the year ending Dec. 1, 1892.

I cannot say that my efforts have been crowned with success, for more than ever have I felt during the past twelve months that I am powerless to bring about the reforms that I long to see established before I lay down my life work.

There is so much to be set right in this great problem of temperance work; so many to be helped and comforted; so much wretchedness, misery and wickedness abounding on every side, that I am almost led to exclaim, "The struggle is of no avail."

Yet day by day I strive to perform the present duty as it comes before me in my daily visits to the Police Court, and among the poor victims of intemperance in our city; leaving both the past and the future results to Him with whom the past and the future are ever present, and Who bids us to weary not in well doing, for in due season we shall reap if we faint not.

In accordance with the requirements of the Trustees I have identified myself with the active temperance work of the city, and have, by precept and example, striven to reclaim the wandering, strengthen the weak, and to help the tried and tempted ones who have fallen once and again, and who yet would gladly throw off the shackles that bind them.

I have labored personally with more than a thousand individuals brought before the Court for drunkenness; a smaller number than in previous years, as many, under the new law, are discharged at the Station House. The law which now provides only for discharge or imprisonment, ignoring all fines, is, in my opinion, benefiting the saloon-keeper alone, for since its passage drunkenness has increased at a fearful rate.

I have collected and distributed more than 150,000 pages of religious and temperance reading among the inmates of the jail and House of Correction, hoping thereby to scatter good seed for future growth.

Scanty have been the seeming results, yet I try to feel that He who places us where He wishes us to labor will Himself care for the harvest if we perform faithfully the tasks He imposes upon us.

All of which is respectfully submitted,

ALONZO STEWART,

*Sanders Temperance Fund Missionary.*

# REPORT OF THE OVERSEERS OF THE POOR.

---

Central Square Building,
Cambridgeport, Dec. 27, 1892.

*To the Honorable the City Council of the City of Cambridge:—*

Gentlemen,— In accordance with the provisions of the Act of May 7, 1877, the Overseers of the Poor respectfully submit their fifteenth annual report for the year ending Nov. 30, 1892.

In the month of April last, Mr. Stephen Anderson was reëlected by the City Council for a term of five years.

In compliance with the desire expressed in the last annual report, the name of this department has been changed from the "Pauper Department" to the "Department of the Overseers of the Poor."

Our work during the past year has been performed in the usual channels without extraordinary incidents.

We have, as usual, failed to look upon those "fireproof safes of ample size for the preservation of the books of record or registry and other important documents or papers" which the public statutes require every city government to provide, and which we have often asked for. His Honor, the Mayor, we understand, has formally brought this subject to the attention of the City Council.

We have missed under the new charter the presence of the Mayor at our meetings. The present Mayor and his immediate predecessors have rendered valuable aid in coöperating with us while they were members of this Board, and have taken great interest in the charitable work of the city.

We have regularly visited and overseen the administration of the almshouse, including the truant school and the carrying on of the farm and ledge. The facilities of the almshouse have continued to be used for collecting and disposing of house offal, a work which we believe should properly be taken up by the Health Department. This labor and its expense have increased the past year through the extra sanitary precautions required by the Board of Health and public sentiment. In rendering aid outside of the almshouse we

have endeavored to meet the pressing needs of all honest applicants without encouraging pauperism. The amount expended for Outside Aid has not increased out of proportion to the extent of the population. The number of insane persons to be supported by the public has increased greatly since former years.

Separate appropriations, including in the totals the estimated receipts, were made the past year by the City Council for the different branches of this department as follows:

| | |
|---|---|
| Outside Aid | $35,000 00 |
| Almshouse | 22,000 00 |
| Farm and Ledge | 8,000 00 |
| House Offal | 19,500 00 |
| Additional appropriation, October, 1892 | 2,700 00 |
| Assistant City Physician's salary | 1,500 00 |

The additional appropriation for house offal became necessary on account of the extra work required as a sanitary measure in view of threatened cholera and other epidemics.

The following were the actual expenditures and receipts for the year:

OUTSIDE AID.

| | |
|---|---|
| Expenditures | $34,838 13 |
| Receipts | 3,743 97 |
| Net cost | $31,094 16 |

ALMSHOUSE.

| | |
|---|---|
| Expenditures | $21,925 43 |
| Receipts | 2,319 32 |
| Net cost | $19,606 11 |

FARM AND LEDGE.

| | |
|---|---|
| Expenditures | $7,730 90 |
| Receipts | 10,592 16 |
| Net gain | $2,861 26 |

ASSISTANT CITY PHYSICIAN.

| | |
|---|---|
| Expenditures | $1,500 00 |

HOUSE OFFAL.

| | |
|---|---|
| Expenditures | $22,376 43 |
| Receipts | 7,535 57 |
| Net cost | $14,840 86 |

The number of persons at institutions for whose support the city is liable has been as follows:

| | |
|---|---|
| City Almshouse | 244 |
| State Lunatic Hospitals | 133 |
| State Almshouse | 3 |
| Middlesex House of Correction | 6 |
| Massachusetts School for Feeble-Minded | 10 |
| | 396 |
| Number of insane in families | 8 |
| | 404 |

The insane hospital cases include 13 at the Danvers Lunatic Hospital, 64 at the Worcester Lunatic Hospital, 21 at the Worcester Insane Asylum, 2 at the Taunton Lunatic Hospital, 1 at the Northampton Lunatic Hospital, 16 at the Westboro Lunatic Hospital, 9 in the insane ward at the State Almshouse at Tewksbury, 7 in the insane ward at the State Farm at Bridgewater. One insane man and seven insane women have been boarded out in families under the supervision of the State Board of Lunacy and Charity. There have been 20 mildly insane cases at the almshouse in addition to the number at the lunatic hospitals supported by the city.

The amount paid to the State Lunatic Hospitals has been $16,780.41. This expenditure amounts to nearly one-half of the whole aggregate for the poor outside of the almshouse. The relatives of the insane and other persons supported by the city have paid $1,023.55 into the city treasury. Other cities and towns have reimbursed the city to the amount of $1,481.47 for aid rendered their poor living in Cambridge. The State Treasurer has paid $1,238.95 for the support of cases having no settlement which were aided from the office of the Board.

There have been 557 histories taken of new applicants for relief, and 74 histories have been revised, as appears by the appended report of the visitor.

The Assistant City Physician has made 3,773 visits upon 114 patients in the almshouse, and he has also made 1,994 visits upon 675 patients outside of the institution, as will be seen by his report.

There have been 244 inmates in the almshouse during the year and 125 remained upon November 30, as shown in the report of the superintendent, together with other details relating to the house, truant school, farm, ledge and offal departments.

RECAPITULATION.

| | |
|---|---|
| Total expenditures for | |
| Outside Aid, Almshouse, Farm and Ledge . . . . | $64,494 46 |
| Receipts for same . . . . . | 16,655 45 |
| Net cost of care of the poor . . . . . | $47,839 01 |

We are pleased to report that the city has commenced to make improvements, which for years have been needed, by laying a sewer from the almshouse through Tannery Street to North Avenue, and by putting the road-bed of Tannery Street in order, including the building of a substantial culvert for the passage of Muller's Brook. Nevertheless Tannery Street is narrow, and the only means of access to the ledge, and, on account of the heavy teaming to the stables and the ledge, will be a difficult road to keep in first-class order, and probably can never be made an agreeable avenue to the almshouse.

The recent widening of North Avenue, the enlarging of Alewife Brook, and other improvements in that vicinity, have given more importance and dignity to the region about the almshouse, and that part of North Cambridge can be made much more pleasant than seemed possible years ago. A new approach to the institution from North Avenue might be laid out in connection with private owners of real estate, which would increase the worth of lands of such owners as well as enhance the value and appearance of the city property.

C. E. VAUGHAN, *Chairman*,
CHARLES WALKER,
WM. W. BURRAGE,
CHARLES BULLOCK,
STEPHEN ANDERSON,
*Overseers of the Poor.*

# REPORT OF THE SUPERINTENDENT OF THE ALMSHOUSE.

CAMBRIDGE, Dec. 1, 1892.

*To the Overseers of the Poor:* —

GENTLEMEN, — The annual report of the Almshouse for the year ending Nov. 30, 1892, is herewith respectfully submitted.

The whole number in the Almshouse during the year has been as follows:

| | |
|---|---|
| Males | 140 |
| Females | 105 |
| Total | 245 |
| Adults | 164 |
| Minors | 81 |
| Whole number in the Almshouse Nov. 30, 1892 | 125 |
| Average number during the year | 135 |

Included in the whole number in the Almshouse Nov. 30, 1892, there are:

INSANE OR DEMENTED.

| | |
|---|---|
| Males | 4 |
| Females | 16 |
| Total | 20 |

IDIOTIC OR IMBECILE.

| | |
|---|---|
| Males | 1 |
| Females | 3 |
| Total | 4 |

EPILEPTIC.

| | |
|---|---|
| Males | 1 |
| Females | 1 |
| Total | 2 |

BLIND.

| | |
|---|---|
| Males | 5 |
| Females | 2 |
| Total | 7 |

Included in the whole number discharged during the year are the following:

| | |
|---|---|
| To Carney Hospital | 1 |
| Blind Asylum, South Boston | 1 |
| Boston Almshouse | 1 |
| Insane Asylum, Worcester | 6 |
| Middlesex House of Correction | 2 |
| New Bedford Almshouse | 1 |
| Sandwich Almshouse | 1 |
| State Almshouse, Tewksbury | 3 |

Remaining in the Almshouse Nov. 30, 1892:

| | |
|---|---|
| Males | 70 |
| Females | 55 |
| Adults | 94 |
| Minors (boys, 24, girls, 7) | 31 |

Whole number of children attending school Nov. 30, 1892:

| | |
|---|---|
| Boys | 20 |
| Girls | 3 |
| Total | 23 |
| Total during the year | 60 |

Of the boys remaining Nov. 30, 1892, there are:

| | |
|---|---|
| Boarding Children | 2 |
| Dependent children | 2 |
| Neglected children | 5 |
| Truant children | 15 |
| Total | 24 |

Of the girls there are:

| | |
|---|---|
| Dependent children | 6 |
| Neglected children | 1 |
| Total | 7 |

The following tables will show the changes in population, the deaths, the farm products and the financial receipts for twelve years ending Nov. 30, 1892:

## Table I.

Showing the number and sex of adult persons and minors of all classes received into the Almshouse in each month of the year ending Nov. 30, 1892.

| Months. | Adults. | | Minors. | | Total. | Dependent Children. | | Neglected Children. | | Truant Children. | | Boar ling Children. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1891 | *M.* | *F.* | *M.* | *F.* | | *M.* | *F.* | *M.* | *F.* | *M.* | *F.* | *M.* | *F.* |
| December .... | 7 | 1 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1892 | | | | | | | | | | | | | |
| January..... | 2 | 5 | 3 | 0 | 10 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| February ..... | 0 | 4 | 2 | 1 | 7 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| March..... | 1 | 1 | 5 | 1 | 8 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 |
| April..... | 3 | 4 | 3 | 1 | 11 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| May ..... | 3 | 3 | 5 | 0 | 11 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| June ..... | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| July ..... | 4 | 1 | 1 | 3 | 9 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| August..... | 0 | 5 | 7 | 2 | 14 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| September .... | 4 | 3 | 0 | 1 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| October ..... | 5 | 3 | 3 | 1 | 12 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 |
| November..... | 4 | 4 | 2 | 1 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 |
| Totals ..... | 34 | 35 | 32 | 11 | 112 | 11 | 10 | 2 | 1 | 16 | 0 | 3 | 0 |

## Table II.

Showing the number and sex of adult persons and minors of all classes discharged from the Almshouse in each month of the year ending Nov. 30, 1892.

| Months. | Adults. | | Minors | | Tota l. | Dependent Children. | | Neglected Children. | | Truant Children. | | Boarding Children. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1891 | *M.* | *F.* | *M.* | *F.* | | *M.* | *F.* | *M.* | *F.* | *M.* | *F.* | *M.* | *F.* |
| December .... | 4 | 1 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| 1892 | | | | | | | | | | | | | |
| January ..... | 5 | 5 | 2 | 2 | 14 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |
| February ..... | 1 | 4 | 2 | 1 | 8 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| March..... | 4 | 3 | 3 | 1 | 11 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 |
| April ..... | 1 | 3 | 1 | 1 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| May ..... | 0 | 4 | 4 | 1 | 9 | 1 | 0 | 0 | 1 | 2 | 0 | 1 | 0 |
| June ..... | 2 | 4 | 2 | 0 | 8 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| July..... | 5 | 2 | 4 | 2 | 13 | 0 | 1 | 1 | 1 | 3 | 0 | 0 | 0 |
| August..... | 1 | 2 | 8 | 2 | 13 | 5 | 2 | 0 | 0 | 3 | 0 | 0 | 0 |
| September .... | 5 | 4 | 5 | 2 | 16 | 3 | 2 | 0 | 0 | 2 | 0 | 0 | 0 |
| October ..... | 1 | 2 | 2 | 1 | 6 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| November..... | 5 | 3 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Totals..... | 34 | 37 | 36 | 13 | 120 | 13 | 11 | 1 | 3 | 20 | 0 | 1 | 0 |

## Table III.

Showing the name, age, time of admission, date and cause of death of each person who has died in the Almshouse during the year ending Nov. 30, 1892.

| Names. | Age. | Date of Admission. | Date of Death. | Cause of Death. |
|---|---|---|---|---|
| Gilbert Brown..... | 81 | Nov. 13, 1891 | Dec. 1, 1891 | Dementia. |
| Moses H. Hobbs..... | 78 | Aug. 29, 1889 | Jan. 22, 1892 | Apoplexy. |
| Joseph Pulsifer..... | 83 | Sept. 8, 1884 | Jan. 23, 1892 | Senile Debility. |
| Richard Collins..... | 62 | July 8, 1886 | Jan. 24, 1892 | Bronchitis. |
| Annie Harigan ..... | 30 | Jan. 23, 1892 | Jan. 25, 1892 | Acute Bronchitis. |
| Ann M. Phillips ..... | 52 | Jan. 29, 1892 | Feb. 16, 1892 | Syphilis. |
| Ellen Sullivan ..... | 74 | May 22, 1891 | April 3, 1892 | Senile Dementia. |
| Alice O'Connell..... | 77 | April 5, 1892 | May 1, 1892 | Dementia. |
| Mary Goodwin ..... | 52 | May 19, 1892 | July 8, 1892 | Consumption. |
| Infant Cremins (male) | 2 days | Aug. 10, 1892 | Aug. 12, 1892 | Infantile Debility. |
| Michael Purcell ..... | 69 | Aug. 6, 1889 | Sept. 20, 1892 | Chronic Dementia. |
| Ann Madden..... | 93 | Oct. 18, 1892 | Oct. 19, 1892 | Cerebral Paralysis. |

## Products of the Farm.

| | |
|---|---|
| 150 bushels beans | $125 00 |
| 500 bushels beets | 350 00 |
| 60 bushels beet greens | 24 00 |
| 10,000 cabbages | 350 00 |
| 70 bushels carrots | 65 00 |
| 450 boxes celery | 1,575 00 |
| 10 boxes celery plants | 10 00 |
| 24,000 cucumbers | 400 00 |
| 425 bushels dandelion greens | 468 00 |
| 3 tons hay and straw | 60 00 |
| 400 dozen green corn | 40 00 |
| 30 bushels rye | 26 00 |
| 1,300 dozen lettuce | 285 00 |
| 350 bushels onions | 240 00 |
| 12 bushels parsley | 29 00 |
| 300 bushels parsnips | 300 00 |
| 150 bushels peas | 150 00 |
| 6,470 pounds pork | 452 21 |
| 150 bushels potatoes | 150 00 |
| 250 dozen radishes | 185 00 |
| 1,200 pounds rhubarb | 30 00 |
| 350 bushels spinach | 140 00 |
| 12 tons squash | 250 00 |
| 800 bushels tomatoes | 420 00 |
| | $6,124 21 |

**Comparative Table of Almshouse, Farm, Ledge and House Offal Receipts for Twelve Years Ending Nov. 30, 1892.**

| Years. | Board. | Chair Shop. | Farm. | General Sales. | Stone. | House Offal. | Totals. |
|---|---|---|---|---|---|---|---|
| 1881.... | $322 56 | | $378 50 | | $2,529 01 | $5,536 88 | $8,766 95 |
| 1882.... | 705 34 | | 436 54 | | 2,626 17 | 5,705 22 | 9,473 27 |
| 1883.... | 1,174 96 | | 476 22 | 14 19 | 2,6.2 00 | 5,819 55 | 10,106 92 |
| 1884.... | 1,480 93 | | 316 76 | | 4,238 77 | 6,449 96 | 12,486 42 |
| 1885.... | 2,035 58 | | 335 32 | 149 85 | 4,509 84 | 7,354 36 | 14,384 95 |
| 1886.... | 613 93 | 37 50 | 772 14 | 319 75 | 5,611 38 | 6,926 23 | 14,280 93 |
| 1887.... | 514 64 | 634 19 | 1,595 10 | 241 37 | 4,684 14 | 6,856 59 | 14,526 03 |
| 1888.... | 557 28 | 614 94 | 2,846 52 | 213 62 | 6,662 20 | 6,721 50 | 17,617 06 |
| 1889.... | 274 84 | 479 28 | 3,684 59 | 144 36 | 5,564 18 | 7,324 61 | 17,471 86 |
| 1890.... | 302 49 | 794 36 | 4,364 03 | 150 89 | 5,651 38 | 7,386 33 | 18,649 48 |
| 1891.... | 1,201 33 | 844 62 | 5,213 68 | 161 71 | 6,107 86 | 7,716 77 | 21,245 97 |
| 1892.... | 1,253 06 | 899 81 | 5,371 60 | 166 45 | 5,220 50 | 7,535 57 | 20,447 05 |
| Totals | $10,436 94 | $4,304 70 | $25,791 00 | $1,562 19 | $56,027 49 | $81,333 57 | $179,455 89 |

## People in the Almshouse.

More than seventy per cent. of the sane men and women received during the year were cases for hospital treatment. Fourteen men and seven women were received who were more than sixty years of age. The oldest man received was eighty-eight, and the average age of all men received was fifty-six and two-thirds years. The oldest woman received was ninety-three, and the average age of all the women received was forty-seven years. Thus we see that a great majority of our people are broken in health, and considerably past middle life. They may have been improvident; they are certainly unfortunate, and, tired of the unequal struggle with adversity, they only crave the poor boon of rest and a chance to die in peace. Some of them have fought the battles of life bravely, and bring with them the respect of their more fortunate fellow-citizens, who willingly assume the charge of their support, and ask that they may be made comfortable.

An enlightened and Christian public sentiment demands that they be furnished with clean, comfortable and well-warmed apartments, with proper clothing for health and comfort, with sufficient food of good quality, well cooked and properly served, with medical treatment and tender nursing when ill, and with decent burial when with

them the struggle of life is over. But this is not all that should be done. The sick should be isolated from the bustle and stir inseparable from large establishments, by the proper provision and location of hospital apartments, and children should be removed beyond the influence of fretful and peevish old age. And every possible effort should be made to make the social atmosphere conducive to mental quiet, contentment and comfort.

To compel the self-respecting poor to associate with the depraved and vicious, the profane and abusive, is a grievous wrong. The attitude of your Board on repeated occasions toward an unworthy and disorderly applicant for admission — who could only urge the disability of intemperate habits — has greatly increased the comfort of our people, and forced the unsuccessful applicant to a condition of manly self-support. I urge, therefore, continued and increased discrimination in the matter of granting permits for admission to the Almshouse.

### Business Enterprises.

Besides the important work of caring for the poor, we also carry on three distinct industries — the working of the farm, the quarrying of stone from the city ledge, and the caning of chairs by the boys of the truant school.

It gives me pleasure to say that these industries show a gratifying balance on the credit side of our ledger.

The farm does not show as much profit as it has in some years in consequence of the low price of produce during the summer months. Still we have a fair margin of clear gain, and our land is constantly increasing in value.

The ledge has been very profitably worked with a considerable financial gain over last year.

But our chair shop — with a diminished number of boys — has, under the economic and discreet management of the assistant superintendent, done much better than in any previous year, the net profit of the shop being greater by eighty-eight per cent. than the average of five previous years.

Acknowledging my obligations to your Board for timely suggestions, and to the officers and employées associated with me in this service for intelligent and faithful assistance, this report is

Respectfully submitted,

MARTIN L. ELDRIDGE,

*Superintendent.*

# REPORT OF THE ASSISTANT CITY PHYSICIAN.

---

OFFICE OF THE ASSISTANT CITY PHYSICIAN,
CAMBRIDGE, Dec. 1, 189

*To the Board of Overseers of the Poor: —*

GENTLEMEN, — I have the honor to present the following report of the doings of this office for the year ending Nov. 30, 1892.

### ALMSHOUSE.

| | |
|---|---|
| Number of visits to Almshouse | 161 |
| Number of persons treated therein (males, 45, females, 35, boys, 31, girls, 3) | 114 |
| Number of professional visits to same | 3,773 |
| Number of chronic insane re-committed to insane asylums | 4 |
| Number of deaths occurring therein | 13 |
| Cost of medicines and surgical appliances | $320 66 |

### OUTSIDE AID.

| | |
|---|---|
| Number of persons receiving professional service | 807 |
| Number of persons attended by direction of the Overseers of the Poor (men, 178, women, 266, boys, 118, girls, 113). | 675 |
| Number of professional visits to same | 1,994 |
| Number of persons attended at Police Stations | 55 |
| Number of visits to same | 62 |
| Number of civil service examinations for the police force | 26 |
| Number of examinations for the fire department | 20 |
| Number of persons attended for the Soldiers' Aid Committee | 31 |
| Number of visits to same | 55 |
| Number examined relative to their sanity | 90 |
| Number of certificates of insanity issued (men, 42, women, 29) | 71 |
| Number of women attended in childbirth | 30 |
| Number of persons sent to hospitals for surgical and hospital care | 42 |
| Cost of medicines and surgical appliances | $315 27 |
| Number of deaths occurring | 30 |

TOTALS.

| | |
|---|---|
| Total number of persons receiving professional service | 921 |
| Total number of visits to same | 5,884 |
| Total amount expended for medicines and surgical appliances | $635 93 |
| Total number of certificates of death issued, after investigation as to cause | 74 |
| Total amount expended in the care of "hospital cases" sent to Carney, Children's, and Cambridge Hospitals | $762 76 |

Respectfully submitted,

LEWIS L. BRYANT,

*Assistant City Physician.*

# CITY CLERK'S REPORT OF FEES AND LICENSES.

CAMBRIDGE, Dec. 1, 1892.

*To the Honorable the City Council:* —

The undersigned herewith presents an account of the sums received for fees and licenses during the year ending Nov. 30, 1892:

| | |
|---|---|
| Auctioneers' Licenses | $40 00 |
| Pool and Billiard Table Licenses | 42 00 |
| Wagons and Carriages | 322 00 |
| Intelligence Offices | 22 00 |
| Junk Licenses: Stores and Collectors | 411 00 |
| Pawnbrokers | 4 00 |
| Recording Mortgages, Assignments, etc. | 612 49 |
| Marriage Certificates | 435 35 |
| Certified Copies from the Records | 29 55 |
| Dog Licenses | 412 40 |
| Liquor Licenses | 44 00 |
| Fireworks' Licenses | 80 00 |
| Minors' Licenses for the sale of newspapers, etc. | 52 40 |
| Sundries | 4 10 |
| Naturalization Fees | 197 50 |
| Total | $2,708 79 |

All of which has been paid into the City Treasury.

The receipts from dog licenses have been $5,009.00. Of this amount the clerk's fee (20 cents for each license issued), amounting to $412.40, is included in the above list of fees, and the balance, amounting to $4,596.60, has been paid to the County Treasurer.

Respectfully submitted,

WALTER W. PIKE,

*City Clerk.*

# CITY TREASURER'S REPORT OF FEES.

---

CAMBRIDGE, Dec. 14, 1892.

*To the Honorable the City Council:* —

GENTLEMEN,— During the year ending Nov. 30, 1892, I received in fees the sum of $1,443.58, itemized as follows, viz.:

| | |
|---|---|
| Summonses to delinquent tax-payers | $1,085 68 |
| Preparing advertisements of sale | 123 85 |
| Advertisements | 82 55 |
| Posting notices of sale | 95 50 |
| Making Collector's Deeds | 28 00 |
| Making Affidavits | 28 00 |
| | $1,443 58 |

The foregoing amount has been paid into the City Treasury.

Very respectfully,

WM. W. DALLINGER,

*City Treasurer.*

# REPORT OF THE CITY MESSENGER.

CAMBRIDGE, Dec. 20, 1892.

*To the Honorable the City Council:—*

In complying with the Ordinance relating to the purchase and delivery of stationery, the City Messenger has the honor to submit his annual report.

| | |
|---|---|
| Stock of Stationery on hand Dec. 1, 1891 | $251 45 |
| Purchased during the year | 765 54 |
| | $1,016 99 |

Delivered to heads of departments as follows:

| | |
|---|---|
| Street Department | $43 88 |
| City Clerk's Department | 74 12 |
| Engineering Department | 32 94 |
| Clerk of Committees | 107 30 |
| Auditor's Department | 37 85 |
| City Messenger's Department | 85 27 |
| Treasurer's Department | 43 15 |
| Police Department | 33 90 |
| Lamp Department | 10 79 |
| Assessors' Department | 66 68 |
| Fire Department | 6 59 |
| Milk Inspector Department | 12 23 |
| City Missionary | 6 52 |
| Harbor Master | 2 80 |
| Superintendent of Public Buildings | 7 21 |
| Agent Soldiers' Aid | 9 58 |
| Inspector of Wires | 3 42 |
| Law Department | 24 55 |
| Executive Department | 50 16 |
| Election Expenses | 46 27 |
| Sealer of Weights and Measures | 11 77 |
| Registrars of Voters | 13 10 |
| Park Committee | 5 17 |
| Stock of Stationery on hand | 281 74 |
| | $1,016 99 |

Very respectfully,

FRANCIS L. PRATT,

*City Messenger*

# REPORT OF THE TRUSTEES OF THE PUBLIC LIBRARY.

---

The report of the librarian of the Cambridge Public Library gives its condition up to the present time, showing a total of 36,643 as against the 21,594 with which we removed to the new building. All the statistics of the Library show progress and they need not be recapitulated; but it is well to call public attention annually to the spirit in which it is administered, and to its general aims.

The Public Library, like the School Department and the Water Department, must never be regarded as a work of public charity, or as the provision made by any class of citizens for any other class. It is rather to be viewed as a part of that modern social tendency sometimes called collectivism, by which the people of a community, as a whole, provide conveniences and advantages for themselves. It is for the City Government to decide, in this case, how far this provision is to be carried, and it is for the trustees to administer their trust, not merely in the letter, but in the spirit of its intention. And the great expansion of the work of the Cambridge Public Library since its removal to the new building has been an effort to carry out this purpose.

We may be said now to reach all portions of the city by our system of local deliveries; but it must always be remembered that even if these should exhibit a smaller number of books distributed, it might not prove that the actual use of the Library was less, but only that visits to the main Library were growing relatively more frequent. This would be, so far, a gain, for it is certain that one person habitually visiting the Library, talking with the librarians about books, making use of our admirable reference collection, and examining the new books in their revolving bookcases, may get as much good out of the institution as two persons who merely stay at home and choose books by the catalogue or the newspaper lists. Our whole policy should be, therefore, to give every possible facility through local deliveries, but always to keep in view the fact that

these deliveries, by the very nature of the case, afford an imperfect substitute for the personal use of the main Library.

Visitors to the Library are often misled in their impressions by coming in just after the schools are dismissed and finding so large a proportion of children as quite to outnumber the adults. If they came in at other hours of the day it would seem quite otherwise, although it must be remembered, even then, that many parents send their children for the books which the parents read. So far as the real demands of the children are concerned, the introduction of a special revolving case for them has made a great difference. There are multitudes of boys, for instance, who see no books at home, and whose one literary yearning is for an indefinite supply of some particular author. After they have had, on a few successive days, the painful experience of applying for book after book by their favorite author and finding every book to be out, it is easy for the observant librarian to tempt them inside the railing and show them the revolving case in which there are dozens of books equally interesting, although by authors whose very names are unknown to them. Nor are these necessarily story-books, for there are many books of adventure and travel which prove as fascinating, and have to be duplicated as much for the Library, as any story-book. The boy thus learns the lesson that there are many books by many authors, and on many subjects; and the mere process of selecting a single book for himself may do more for him than having half a dozen prescribed by others. However it may be elsewhere, it is perfectly sure in a library that the main work must be done by drawing, not by driving.

In the same spirit, it is the aim of the managers of the Library to induce maturer readers, so far as possible, to coöperate in the purchase of books by indicating those they need. It is of course impossible, with our limited means, to pledge ourselves to buy every book asked for; but it is the simple truth that thus far we have almost always done this. The plain theory of the matter is that it is always easier to secure books than readers; every month we buy certain books at a venture, that is, in the hope that somebody may read them; and if we can know in advance that one person wants a particular book, there will always be a prospect that some one else will want it, and we are, at any rate, sure of one. This applies also to works of science, even if these are in foreign languages. Our city is full of young students of both sexes pursuing their studies here or in Boston, and where they make application for a chemical

treatise in German, or even an English Grammar in the same language, our usual course is to enquire of some college professor, who is an authority on the subject, as to the real value of the book. If we find, as is usually the case, that it is the very latest and best treatise on the subject, we buy it, if the price is reasonable, and soon find that there are other applications for it. Some of the books most actively in demand in our Reference Library are in foreign languages, and were bought partly as an experiment, as, for instance, Larousse's great Dictionnaire Universel, in French, and Schmidt's Shakespeare-Lexicon.

The chief demand for German books is in the scientific direction, and it is rather a disappointment to find the literary use of German to be as yet so small among our readers. On the other hand the demand for French books is more literary than scientific; and the writings of the ablest French novelists, as Victor Hugo, Balzac and Daudet, are in constant demand. We try also to keep abreast with those books of literary criticism, from Sainte-Beuve to Brunetière, in which France surpasses all other nations. There is a large and somewhat uneducated French-Canadian population in Cambridge which we have yet scarcely reached with our books; but we ought to do this, in the end, since it appears that in some manufacturing towns, like Marlboro, this class uses the Public Library very freely, and the French priests interest themselves in it. Our efforts to reach our Swedish fellow-citizens are beginning to succeed after a year or two of discouragement, and we are planning to make additional purchases for their benefit. Of course the bulk of our purchases are, and always will be, in English; and we sometimes make, under the guidance of experts, large special purchases in English scientific books, as, for instance, in a collection of works on physical geography lately recommended by Prof. W. M. Davis. But, inasmuch as we teach French and German in our schools, it is eminently proper that the Library should extend itself in those two directions, also, within moderate limits.

The one class of our citizens which, for whatever reason, we find the hardest to reach, is the very class at which we have aimed most sedulously from the beginning; namely, the intelligent young mechanics needing technical instruction. From the very time of the removal of the Library we have taken pains to provide technical books for this class, and for the last two winters have provided a special expert adviser, one evening in the week — Mr. Sweet of the Manual Training School — the fact being widely advertised, last

winter, through our large manufacturing establishments. We have had the hearty coöperation of some large employers, and of others, as Father Scully, possessing great influence with the class at which we aim. We know that in other places, as in Worcester, great use is made of the Public Library by this very class, for technical instruction. It may be that Worcester employs more highly trained labor than Cambridge, or that the very position of the Worcester Library, near the heart of the business community, brings this class more within reach. Possibly we may find it well at some period to establish a branch Library, in the Lower Port, with the express object of reaching this class. As it is, we have reached very thoroughly the schools and the homes of Cambridge; we have reached the literary and artistic clubs, and we seem to possess the confidence of the churches, without exception; but the machine-shops we do not yet reach.

The donation just received by us of the rare and valuable medical library of Dr. Morrill Wyman, besides creating a value in our collection on a side where it is now very weak, will introduce a new problem of use. The collection will not, of course, be popularly useful; but it is extremely desirable that it should be made serviceable to experts, not limiting the list of these to Cambridge. The great Public Library of Worcester has as one of its departments the collection of the County Medical Society, which is visited for consultation from considerable distances by professional readers, and which every citizen of Worcester has also a right to consult. This library of Dr. Wyman's, like the classical library of Dr. Beck, will have to be catalogued, and as most of the books are in German or Latin, it will involve some extra labor, of an expert kind. Its possession will confer added distinction upon our Library, and we must also take pains to make it as useful as is consistent with safety.

The expenditure which has now become most essential to the usefulness of the Cambridge Public Library is an enlargement of the reading-room. It has been evident, almost from the first, that this part of the building was planned upon too small a scale; and a visit to the Library between four and six P. M., on any day of the week, will make evident the necessity of an enlargement. When we consider that the Newton Public Library, built, or rather remodelled, about the same time with ours, has three different reading-rooms — one for the reference library, one for magazines, and one for newspapers, each of the three being as large, or nearly as large, as our main room — it is evident that we are, in this respect, behind-

hand. Even in Newton the question is now raised whether there should not be, as in Brookline, an especial room for children. On the other hand, no public library with which we are acquainted has a main hall so attractive to the eye as ours. This should not be interfered with; but no doubt some plan can be suggested by which an addition can be made, in harmony with the general proportions of the building. With this addition once made, there seems no reason why the institution should not be carried on upon its present basis, and without anything beyond a moderate annual increase of expenditure, for some years to come.

ALBERT M. BARNES,
OLIVER H. DURRELL,
T. W. HIGGINSON,
JOHN H. H. McNAMEE,
SAM'L L. MONTAGUE,
WILLIAM TAGGARD PIPER,
ALVIN F. SORTWELL,
} *Trustees.*

# REPORT OF THE LIBRARIAN OF THE PUBLIC LIBRARY.

---

*To the Trustees of the Cambridge Public Library:—*

Gentlemen,—In presenting this, her nineteenth annual report, the librarian can assure you that the Library has never known a more useful and prosperous year.

The statistics show a remarkable increase in the circulation, large accessions by purchase, and many valuable donations to the Library. Much of the usefulness of such a collection as we now have cannot be recorded by mere figures. Not a day passes without giving evidence of the helpfulness of our reference library to students and teachers. For this class of readers we need a more retired reading-room. When in the near future the needed addition to this building is made, provision should be made for such a room.

The most valuable donation of books which the Library has ever received comes this year from Dr. Morrill Wyman, our revered fellow-citizen. His gift to the library is a collection of some four thousand books on medicine and kindred subjects. It seemed desirable to place this library in a room devoted to it, where it could be freely consulted by our physicians and students of medicine. The Trustees have, therefore, decided to use the upper reading-room for this purpose, and to place the newspapers temporarily in the basement rooms. In the future it may be possible to place them in the present reading-room, but while we have no more retired room for study and consultation this is not desirable.

This year, like the preceding, has brought a change in the corps of assistants. In March, Miss Grace Reed accepted a position in the Harvard University Library; Miss Grace Clark was promoted to the vacant place, and Miss Isabel A. Jacobs, of Cambridge, appointed as assistant in this library.

The cataloguing of the Wyman medical library will begin early in the coming year. The typewritten card catalogue now numbers seventy-five hundred cards, a gain of thirty-five hundred this year.

The question of printing other supplements to the catalogue should be decided. Our readers prefer a printed catalogue, but printing is a great expense and multiplies the lists to be consulted. A card catalogue affords one alphabetical list, complete to date, but it can only be consulted by a limited number at one time.

The apparent decrease of circulation among the schools is due, in part, to the fact that many teachers prefer to keep particularly helpful books as long as possible, rather than to change books every week. Others use their special cards any day without depending upon the basket delivery. The actual use of the Library by teachers has by no means decreased.

During the year twenty-two books have been lost. In most of these cases the person who took the book had moved and could not be traced, having left town. We have made repeated efforts to recover these books, by sending postals and messengers, but in vain. All but three were inexpensive juvenile books or works of fiction. The examination of the Library shows other books missing, which we hope to find, as they are not charged to any one.

## Circulation.

| | Central. | Local. | Schools. | Total. |
|---|---|---|---|---|
| First Quarter. . . . . | 26,045 | 6,048 | 2,080 | 34,173 |
| Second Quarter . . . . | 26,209 | 6,599 | 2,230 | 35,038 |
| Third Quarter . . . . | 18,729 | 4,930 | 340 | 23,999 |
| Fourth Quarter . . . . | 21,829 | 5,354 | 1,878 | 29,061 |
| Total . . . . . | 92,812 | 22,931 | 6,528 | 122,271 |

Average per day. Library (Central) . . . . . 303
Average per day. Local, including schools . . . . . 123

The largest issue for any day (including local delivery) 1,005, March 5. This is the largest day's issue in the history of the Library.

The smallest issue for any day, September 14, 150.

## Classified Circulation.

| | Fiction. | Juvenile Literature. | Biography. | Miscellany. | History. | Poetry. | Science and Art. | Travel. | Bound Magazines. | Current Magazines. | Foreign Literature. | Total for Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Central Library | 41,913 | 22 666 | 4,584 | 5,684 | 4,230 | 2,713 | 4,219 | 3,493 | 687 | 1,676 | 947 | 92,812 |
| Local & Schools | 14.200 | 8,166 | 1,310 | 518 | 1,471 | 269 | 1,247 | 1,694 | 252 | 300 | 32 | 29,459 |
| Total ..... | 56,113 | 30,832 | 5,894 | 6,202 | 5,701 | 2,982 | 5,466 | 5,187 | 939 | 1,976 | 979 | 122,2 1 |
| Per cent..... | .45 | .25 | .05 | .05 | .05 | .03 | .04 | .04 | .01 | .02 | .01 | |

### School Delivery.

| Name of School. | Agassiz. | Allston. | Corlett. | Harvard. | Morse. | Peabody. | Putnam. | Shepard. | Thorndike. | Washington. | Webster. | Wellington. | English High. | Latin High. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Books delivered. | 23 | 883 | 139 | 460 | 687 | 554 | 612 | 674 | 578 | 662 | 693 | 376 | 48 | 139 | 6,528 |

Since the English High School was removed to its new building the teachers have drawn books from the Library directly, not needing to use the basket delivery.

### Local Delivery.

| Stations. | No. Cambridge. | E. Cambridge. | Cambridgep't. | Lower Port. | Belmont Dist. | Ward Four. | Total. |
|---|---|---|---|---|---|---|---|
| Books | 4,288 | 5,084 | 4,293 | 3,029 | 2,785 | 3,452 | 22,931 |

### Additions.

| Source. | City Appropriation. | Citizens' Subscription Fund. | Income of Cummings' Fund. | Income of Fay Fund. | Given. | Exchanged. | Bound Periodicals. | Total. |
|---|---|---|---|---|---|---|---|---|
| Books | 2,429 | 477 | 5 | 2 | 337 | 77 | 60 | 3,327 |

A list of donors is given in Appendix A of this report.

Present number of volumes in the library, 36,643.

| | |
|---|---|
| Number of books bound or repaired | 3,140 |
| Number of books covered or labelled | 17,175 |
| Number of postals sent for books overdue | 5,475 |
| Number of new cards issued | 2,498 |
| Present number of card-holders | 13,765 |

The following amounts have been received for fines and catalogues. The City Treasurer's receipts for these sums have accompanied the quarterly reports.

| | Fines. | Catalogues. | Total. |
|---|---|---|---|
| First Quarter . . . . . | $65 68 | $5 85 | $71 53 |
| Second Quarter . . . . . | 62 09 | | 62 09 |
| Third Quarter . . . . . | 67 83 | | 67 83 |
| Fourth Quarter . . . . . | 57 62 | 9 15 | 66 77 |
| | $253 22 | $15 00 | $268 22 |

All of which is most respectfully submitted,

ALMIRA L. HAYWARD,

*Librarian.*

# APPENDIX A.

## List of Donors for 1891-92.

| | |
|---|---|
| O. F. Adams | 2 |
| Arena Publishing Co. | 1 |
| Albert M. Barnes | 35 |
| John D. Billings | 2 |
| Mrs. S. K. Bolton | 1 |
| Mrs. Francis Bowen | 6 |
| Miss L. D. Bullard | 2 |
| City of Cambridge | 4 |
| Dr. E. R. Cogswell | 10 |
| Mr. J. N. Conrad | 5 |
| Rev. Wm. Cushing | 1 |
| Mrs. Chas. Deane | 1 |
| Dr. Walter Ela | 1 |
| First Church in Cambridge | 2 |
| Mrs. Mary Fisk | 5 |
| Dr. Norton Folsom — Medical journals and | 8 |
| Mr. Francis A. Foster | 30 |
| Mr. Sam. Garman | 1 |
| H. L. Gordon | 1 |
| Grand Army Post | 1 |
| W. M. Griswold | 1 |
| Col. T. W. Higginson | 32 |
| Dr. J. L. Hildreth | 1 |
| Hon. Sherman Hoar | 7 |
| Rev. F. W. Holland | 1 |
| John Holmes — Fifteen duplicates and | 5 |
| Prof. E. N. Horsford | 4 |
| Miss Lillie Howe — (Unbound) | 7 |
| Tracy Howe | 1 |
| Mr. F. V. B. Kern | 2 |
| Chester W. Kingsley | 2 |
| W. C. Lane | 1 |
| James R. Lowell | 2 |
| Mrs. M. E. MacKaye | 1 |
| *Carried forward* | 186 |

| | |
|---|---|
| *Brought forward* | 186 |
| Mr. J. H. H. McNamee | 59 |
| Mrs. Mandell | 1 |
| Massachusetts, State of | 14 |
| Massachusetts Charitable Mechanics' Association | 1 |
| Massachusetts Society for Promoting Agriculture | 1 |
| Massachusetts Woman's Suffrage Association | 1 |
| Newton Public Library | 1 |
| Prof. C. E. Norton | 1 |
| Mr. L. W. Page | 1 |
| W. A. Preble | 1 |
| Mrs. Chas. Pickering | 1 |
| Mr. W. T. Piper | 3 |
| Mr. Chas. Putnam | 2 |
| W. J. Rolfe | 1 |
| Mr. D. W. Ross | 8 |
| Mrs. E. B. Tower | 38 |
| Trustee | 1 |
| United States | 16 |
| | 337 |

# REPORT OF THE SUPERINTENDENT OF PUBLIC BUILDINGS.

---

Office of the Superintendent of Public Buildings,
City Hall, Dec. 1, 1892.

*To the Honorable the City Council of Cambridge:—*

In accordance with Section 4, Chapter 13, of the Revised Ordinance of 1892, I respectfully submit my seventh annual report of this department. By virtue of the new City Charter, the care of the Public Buildings of the city and the expenditure of the appropriation allowed for the same, devolves entirely upon the Superintendent of Public Buildings, therefore a more extended report is required than has been given in former years.

### The New English High School.

At the beginning of the present financial year the building, although ready for occupancy, was not, as regards furnishings, entirely completed, and all of the original contracts had not been paid; therefore an appropriation was required, and the following is a statement of the same:

| | |
|---|---|
| At the expiration of the financial year ending Nov. 30, 1891, there had been expended on this building the sum of | $163,956 34 |
| Leaving an unexpended balance of | 56,043 66 |
| The whole appropriation being | $220,000 00 |

The following contracts, not being completed, remained unpaid:

| | |
|---|---|
| J. E. Giddings & Son, contracts | $42,516 75 |
| Ingalls & Kendricken, for heating apparatus | 1,190 00 |
| Chamberlain & Austin, Architects | 897 01 |
| C. L. Stewart, Clerk of works | 30 00 |
| Total | $44,633 76 |
| In order to complete and furnish the building, there was appropriated for the year 1892 | $63,043 66 |
| An additional appropriation was made in May, 1892, of | 2,500 00 |
| Total appropriation | $65,543 66 |

EXPENDED.

| | | |
|---|---|---|
| Contracts | $44,633 76 | |
| Supplies | 4,248 64 | |
| Furniture | 7,383 96 | |
| Extra labor, etc. | 5,229 69 | |
| Grading, etc. | 3,863 86 | |
| | | $65,359 91 |
| Due for insurance | | $183 75 |
| The total expense on the building has been | | $229,500 00 |

The following is a summary of this building:

The new English High School building was occupied for the first time in February, 1892. There remained many things to be done both inside and out, but it was deemed best not to wait for these final touches; indeed, it is hard telling when so large a building is really done. There is a sense in which a great structure like this building or the new City Hall is never done. It is impossible to anticipate in the original plans every detail that merits attention; and when such details are provided for, change or failure of certain old things, and the demands that growth never ceases to make for new things, are always pressing for consideration. Then, too, there is a class of needs that should be postponed, notwithstanding the inconvenience that results, until experience and thought have determined the best way of meeting them.

THE GROUNDS.

The principal item of expenditure during the year has been caused by the laying out and grading of the spacious lot upon which the building stands. This land, as is well known, is the gift of Mr. Frederick H. Rindge. In the rear is the playground, set apart by Mr. Rindge for the pupils of the English High and Manual Training Schools. Close by are the beautiful and extensive grounds of the Public Library. The conditions require that the grounds of the High School building should be thoroughly treated, so as not to be only pleasing in themselves, but in harmony with those adjacent. They have been graded a little above the level of the land around, and covered with hundreds of loads of loam. Walks have been laid to favor the approach of pupils from all directions, and to make it convenient for any one to go around the building. These walks are constructed with an artificial stone centre, side of crushed red granite, and sodded borders. In my last year's report it was proposed to make the walks of asphalt

blocks, such as are used on Boston Common, but the difficulty of making satisfactory curves with such blocks, as well as their greater cost, led to the substitution of what is called artificial stone.

The area in the rear between the wings of the building and over the coal bin has also been covered with artificial stone. A thoroughly built macadamized roadway extends from Ellery to Trowbridge Streets, across the rear of the building, for the use of coal, ash, express and other teams.

A granite retaining wall has been constructed to separate the school lot from the playgrounds in the rear. This is surmounted by a simple but strong and pleasing iron rail. The lawns have all been sowed, their borders sodded, and the grass is well under way. Brick sidewalks have been laid around the grounds by the Street Department, and the streets that bound the lot have been improved.

### THE CARE OF THE GROUNDS.

It is important that all the land of the Rindge gifts, as well as that which Mr. Rindge has set apart for public uses (but of which he still retains possession), should receive as thorough attention as that with which the Public Library grounds are favored. Together these various lots make, practically, a little park for the use and adornment of the city. It is understood that the Trustees of the Manual Training School would be pleased to have not only the grounds of that school, but also the playgrounds, taken care of by the City Forester, under the direction of the Street Department, and certainly the grounds of the English High School should be cared for by him. It is hoped and respectfully recommended, that next year's appropriation for the care of public grounds include enough to keep all this area, which might conveniently and appropriately be named Rindge Park, in clean and attractive condition, with added shrubbery and flower beds enough to secure unity and beauty of effect.

### FURNISHINGS.

A great variety of details within the building have received attention during the year. Furniture has been provided, the fitting up of the drawing-room, covering of the steam pipes, improved fire-grates, a hoisting device for removing ashes, an automatic steam regulator for the boilers, numbering of hall seats, door checks, fitting up of the janitor's room, and so on.

NEEDS FOR THE COMING YEAR.

The walls of the rooms, corridors and halls should be tinted with warm pleasing colors, but this should not be done until the building has substantially ceased settling and shrinking. There will need to be snow guards for the long, sloping rear roof, window screens for the rear of the basement, the fitting up of the bay-window in the boiler room for the use of the engineer, and the relaying of the basement floor with asphalt.

FLAGSTAFF.

Through the generosity of Charles Beck Post No. 56, of the Grand Army of the Republic, this school has had a large flag presented to it. The architects object to a flagstaff from the roof of the building, but incline to one over the central door. A better plan, doubtless, is to have a flagstaff rising directly from the ground, and high enough to carry the flag well above the building.

There are several minor matters that need to be added to the foregoing list. The propriety, therefore, of making a moderate specific appropriation for the future furnishing of the building is respectfully urged, to the extent as estimated of $1,200.00.

If this building has received unusual attention in my report, it is because it is considered the crowning structure of our school-building system; and when perfected in its appointments and attractiveness, it will be an added source of admiration and pride to every citizen of our city.

## Manual Training School.

It should not be forgotten that rooms in this building are occupied by the English High School boys, their use costing the city nothing. Mr. Rindge is now erecting a commodious building for the better accommodation of the pupils of the Manual Training School, and rooms in the same building are placed at the disposal of the school board, to be used, as in the first building named, for High School purposes. The city will be expected, however, to equip these rooms, as it did the rooms of the training school. This would involve the repair and purchase of desks, and the usual school-room appointments. $200.00 will be sufficient for the purpose, which sum is respectfully asked as an appropriation.

### The Old English High School House.

This building was vacated last winter, and found in a bad state of repair, and unfit for occupancy by the Latin School. In anticipation of this, an appropriation of $20,000.00 was asked, and only $15,000.00 granted in February, with an addition of $1,500.00 in May. Plans and specifications were prepared by Architect C. H. McClare, and, early in the spring, contracts were awarded to the following parties:

| | |
|---|---|
| General contract, including carpenter, mason, plaster and painting work, to Mr. John Quin for the sum of . . . | $8,127 00 |
| Heating and ventilation to Mr. S. C. Higgins, for . . . | 5,150 00 |
| Plumbing to Mr. Geo. V. Eldridge, for . . . . . | 2,123 00 |

All of whom were Cambridge mechanics.

The changes made were numerous, and have been such as to make the old building one of the best in the city in every particular. Important changes have been made in several rooms, the hall has been greatly improved, vestibules on each floor enlarged, made spacious, convenient and attractive in appearance. These, with the construction of the reception room and drawing-room, comprise some of the alterations made. The floors and windows are new throughout the building, and all wood work, walls and ceilings have been newly painted or tinted. The old heating and ventilating apparatus has been removed, and replaced by a new system of indirect heating, by which warm mixed and cold fresh air is delivered into the rooms as desired, and the foul air exhausted by galvanized iron ducts in which are placed heated steam coils; by this method the air can be changed four times each hour, so making this one of the best warmed and ventilated school houses to be found in the city. The plumbing is also new throughout, and this building is without doubt the best plumbed of any of our school houses, the material and workmanship being excellent. In connection with the heating, the boilers have been set and a large chimney built.

| | | |
|---|---|---|
| Appropriated in February . . . . . | | $15,000 00 |
| Appropriated in May . . . . . | | 1,500 00 |
| Total appropriation . . . . . | | $16,500 00 |
| EXPENDED. | | |
| John Quin, Contract and extra labor . . . | $8,275 50 | |
| G. V. Eldridge, Contract and extra labor . . | 2,218 00 | |
| *Amounts carried forward* . . . . . | $10,493 50 | $16,500 00 |

| | | |
|---|---|---|
| *Amounts brought forward* | $10,493 50 | $16,500 00 |
| S. C. Higgins, Contract and extra labor | 5,105 00 | |
| J. W. Swasey, Blackboards | 250 00 | |
| C. H. McClare, Plans | 385 00 | |
| Turner N. W. Co., Gas fixtures | 71 24 | |
| A. Worcester & Co., Window shades, etc. | 111 84 | |
| McGahey & Byrne, Extra labor | 63 00 | |
| Sundry bills | 16 65 | |
| Total expenditure | | $16,496 23 |
| Balance | | $3 77 |

PHYSICAL LABORATORY.

Mr. C. L. Weldon was awarded the contract for fitting up the physical laboratories, which are perfected by all modern improvements, such as wall and floor tables, cases, drawers, shelves, and all plumbing and gas-fitting in connection, making its equipment most complete and highly satisfactory. Taking the old school house in its remodelled and renewed state, it may well be considered worthy to be the home of the Latin School.

| | |
|---|---|
| Appropriation for Laboratory, furnishings and fittings | $1,900 00 |

EXPENDED.

| | | |
|---|---|---|
| C. L. Weldon, Contract | $913 00 | |
| C. H. McClare, Plans | 27 39 | |
| T. B. Wentworth, Repairing furniture | 227 84 | |
| Harwood M'f'g Co., Furniture | 315 25 | |
| Chickering & Sons, Repairing Piano | 88 00 | |
| E. Howard Co., Clock | 75 26 | |
| Phillips Bros. & Co., Repairing furniture | 43 00 | |
| J. D. Ford, Painting | 35 00 | |
| W. H. Norris, Extra labor | 55 00 | |
| John Quin, Extra labor | 37 73 | |
| Geo. V. Eldridge, Extra labor | 28 00 | |
| Sundry furnishings | 53 65 | |
| Total | | $1,899 12 |
| Balance | | $0 88 |

On account of the limited appropriation, work on the roof was postponed for future action. The slates with which the roof is covered are of the poorest quality known, and are now rotten and likely at any time to be in a leaky condition. It has been fairly repaired to answer for the present, but it has been in a bad condition for a number of years, and repairs only cause many other slates

to be broken, and the last state is often worse than the first. The entire roof should be re-covered with slate and tin, old ventilators taken off, and gutters repaired. An estimate has been obtained for doing the work indicated, amounting to $1,400.00, and I most respectfully recommend that the amount be appropriated for the purpose named.

Besides the amount named, I desire to call your attention to the necessity of additional furniture, such as settees, seats, etc., the expense of which will be $250.00. I respectfully ask that the additional appropriation be made.

### The Wellington School House.

The extension and alterations of the Wellington School house at the corner of Columbia and Lincoln Streets, Ward Two, which are being carried on under contract by Messrs. Briggs Bros., and according to plans and specifications prepared by Architect C. H. McClare, is progressing rapidly, and will reach completion and probably be ready for occupancy by the first week in January, 1893. The exterior walls are constructed with best red bricks (face), with belt courses of Nova Scotia free stone. The front entrance displays the Philadelphia and Boston moulded brick to advantage, giving a very pleasing effect. There will be four large and one small schoolroom and two classrooms, with a large Exhibition Hall in the extension, besides several dressing-rooms, coat rooms, closets, book rooms and laboratories, all very conveniently arranged. There have been added to the third story of the old part, two schoolrooms and a classroom which will make this one of the largest schools in the city, viz. : fourteen schoolrooms, five classrooms and a large exhibition hall. The schoolrooms will seat about seven hundred pupils. The building will be heated with warm fresh air, and the foul air exhausted by heated galvanized iron ducts.

APPROPRIATED.

| | | |
|---|---|---|
| April 29, appropriated | | $20,000 00 |
| June 14, appropriated | | 500 00 |
| Total appropriation | | $20,500 00 |

EXPENDED.

| | | |
|---|---|---|
| Briggs Bros., Contract | $19,700 00 | |
| Amounts paid thereon | 8,400 00 | |
| Amount due | $11,300 00 | |
| *Amount carried forward* | | $20,500 00 |

| | | |
|---|---|---|
| *Amount brought forward* . . . . . | | $20,500 00 |
| C. H. McClare, Plans . . . . . | $591 00 | |
| Amount paid . . . . . | 150 00 | |
| Amount due . . . . . | $441 00 | |
| Total expended . . . . . | | 8,550 00 |
| Balance . . . . . | | $11,950 00 |

AMOUNTS UNPAID.

| | | |
|---|---|---|
| Briggs Bros., Contract . . . . . | $11,300 00 | |
| C. H. McClare, Plans . . . . . | 441 00 | |
| Briggs Bros., Extra labor . . . . . | 75 00 | |
| Total amount unpaid . . . . . | | 11,816 00 |
| Balance for contingencies . . . . . | | $134 00 |

As this school building will soon reach completion the matter of furnishing the same is brought to your attention. The usual school equipments will be necessary, such as seats and desks, repairs of old furniture, curtains, blackboards, etc., etc. An estimate has been made of $2,200.00, and I most respectfully ask that this amount be appropriated for the purpose.

### Boardman, Felton, Otis and Sargent School Houses.

A system has been applied (first having received the approval of the Board of Health) for sanitary purposes in the vaults of the out-buildings of these school houses, and it is confidently expected that ample relief from former annoyances will follow its use. The contract price for the entire work comprising additional drainage, a separate water supply, traps, carpenter work and painting, was $1,700.00, and has been paid for from an appropriation made for the purpose named.

### Quincy School House.

The out-building connected with this building has been removed and convenient sanitary arrangements placed in the basement, which is well adapted for the purpose, being large, light and airy. The entire surface has been cemented, two rooms have been made, extra stairway built, making the whole a model of convenience as well as a healthful arrangement. The contract price was $322.50.

### Cushing, Dana, Gannett, Lassell, Morse, Putnam, Shepard, Thorndike, Webster and Willard School Houses.

Special attention has been given to these buildings in the line of whitening, tinting, painting, plumbing, and repairs on roofs and drainage. All other school houses have received necessary repairs and improvements to a less extent.

### Sanitary Conditions of School Houses.

Complaints frequently reach this office from the Board of Health and sundry parties owning property adjoining school houses, relative to the foul and unhealthy condition of vaults of out-buildings connected with sundry school houses in different sections of the city. During the year five of the cases complained of have been remedied, leaving twelve more needing attention. Some of these are of pressing importance and are connected with schools as follows: Dana, Dunster, Holmes, Riverside, Wellington, Wyman and Reed. To change the condition effectually, the Wyman and Reed can have water arrangements in their basements, being light, high and airy; the others named may be changed as recommended by the Board of Health and as applied during the year, obtaining perfect results, having traps and water supply in vaults, well protected during the freezing season of the year. This work will cost on the average of $475.00 each, making the expense of the seven amount to $3,325.00. On account of the pressing necessity existing, I respectfully recommend that $3,325.00 be appropriated for the purpose.

### Harvard School, Fire Escapes.

Early in the spring I took pleasure in inviting a member of the Finance Committee and one of the Committee on Public Property, to visit with me the Harvard School house, hoping thereby to determine how best to dispose of the appropriation of $1,500.00 intended to meet the expense of a fire escape. We looked the building over and agreed that one fire escape would answer a very limited purpose. It was discovered that one fire escape would necessitate the cutting through from room to room of twelve doors, and that, through confusion and crowding at so poor a location, a fire escape would be dangerous in itself. Upon second thought it was decided by us all, that if fire escapes were to be put on, four would be necessary, one on each side of the building, in order to

ensure perfect safety; this would deface the building as well as cause unlooked-for expense. An appeal to the State Inspector brought for the second time from that source, information, that if said fire escapes be adopted, they could only receive the approval of the State Department after being entirely covered in, to protect them from the snow and ice of winter; and so the appropriation was not expended for the purpose.

### Granite Curbing and Grading for the Morse School House.

The strike by the granite workers made the cost of finished granite reach so high a price that it appeared wise to delay the matter until a more favorable opportunity, and until a time when the curbing of the sidewalk can be completed.

### Bridge School House.

The small, one-story wooden school house on Pioneer Street has only two rooms, and has reached so serious a state of dilapidation that its early abandonment will be necessary. It is a cold and cheerless place in the winter season, being heated by two stoves. A poorer structure for school purposes cannot be found; worn and decayed, it belongs to a primitive age. It has been suggested that a lot of land owned by the city on the corner of Broadway and Sixth Street be utilized for the erection of a four-room brick school house, answering the growing necessities of that section of the city. In anticipation of presenting the matter for your early attention, a plan will soon be suggested, and an approximate estimate presented for your consideration.

### The National Flag.

The cost of flags during the year has not been large. Some schools evince an interest and take pride in replacing flags when worn out, and repairing them when defaced or damaged. In September last the flagstaff on the Harvard School House was shattered and destroyed by lightning, and the same was immediately replaced by another. By the generous contribution of $75.00 by Mr. John Hopewell, Jr., flags were placed on the Boardman, Tarbell and Willard school houses, and the generous gift of a flag from Mr. Henry D. Yerxa has allowed one to be placed over the Wyman School. The cost during the year in this direction has been $348.44. An appropriation of $100.00 should be made to meet expense in painting the staffs and for sundry expenses attending them.

## Maintenance of School Houses.

| Schools. | Fuel. | Repairs. | Supplies. | Ex. Labor. | Janitors. | Totals. |
|---|---|---|---|---|---|---|
| Allston .... | $347 00 | $297 67 | $147 42 | | $351 00 | $1,143 09 |
| Agassiz ... | 296 54 | 103 35 | 21 10 | $54 00 | 473 28 | 948 27 |
| Boardman .. | 267 20 | 423 55 | 79 62 | 27 11 | 465 00 | 1,262 48 |
| Bridge..... | 64 00 | 23 77 | | 11 80 | 142 50 | 242 07 |
| Corlett ..... | 83 00 | 104 57 | | 5 90 | 236 25 | 436 12 |
| Cushing .... | 111 70 | 79 32 | | 8 85 | 236 25 | 429 72 |
| Dana ..... | 133 60 | 275 73 | 7 65 | 11 80 | 241 63 | 670 41 |
| Dunster .... | 138 00 | 82 74 | 12 50 | 8 85 | 363 75 | 605 84 |
| Felton ..... | 159 60 | 266 71 | 19 64 | 11 80 | 241 63 | 699 38 |
| Gannett, new | 263 60 | 468 46 | 60 28 | 1 75 | 395 00 | 1,189 90 |
| Gannett, old | | 16 40 | 1 12 | | 388 75 | 406 27 |
| Gore ..... | 452 00 | 74 92 | 144 53 | | 610 00 | 1,281 45 |
| Harvard .... | 489 60 | 389 36 | 94 87 | 34 37 | 858 38 | 1,866 58 |
| High, old ... | 397 00 | 762 02 | 233 33 | 272 27 | 858 37 | 2,522 99 |
| High, new .. | 1,380 25 | 11 95 | 32 15 | 813 75 | 1,817 55 | 4,055 60 |
| Holmes .... | 134 90 | 205 19 | 18 23 | 8 85 | 322 13 | 689 30 |
| Lassell ..... | 107 60 | 93 42 | 1 80 | 14 75 | 347 50 | 565 07 |
| Latin..... | 156 45 | 13 00 | 15 67 | | 408 52 | 593 64 |
| Lowell ..... | 135 85 | 82 20 | 29 64 | 5 90 | 292 49 | 546 08 |
| Morse ..... | 1,365 95 | 603 31 | 167 31 | 107 43 | 945 00 | 3,189 00 |
| Otis ..... | 188 20 | 143 54 | 135 52 | 11 80 | 392 01 | 871 07 |
| Peabody ... | 510 75 | 274 03 | 61 12 | | 484 73 | 1,320 63 |
| Putnam .... | 922 20 | 209 40 | 160 12 | 5 00 | 610 00 | 1,906 72 |
| Quincy ..... | 78 60 | 93 20 | 10 33 | 134 30 | 292 50 | 608 93 |
| Reed ..... | 131 80 | 84 70 | 28 05 | 11 80 | 347 50 | 603 85 |
| Riverside ... | 185 94 | 244 32 | 3 36 | 11 80 | 312 00 | 757 42 |
| Shepard .... | 382 00 | 427 50 | 39 66 | | 583 00 | 1,432 16 |
| Sargent .... | 134 50 | 55 00 | 24 39 | 8 85 | 351 00 | 573 74 |
| Stearns .... | 161 40 | 154 11 | 52 77 | 13 00 | 241 74 | 623 02 |
| Tarbell ..... | 151 60 | 202 79 | 17 50 | 21 23 | 316 00 | 709 12 |
| Thorndike .. | 399 00 | 671 52 | 140 40 | | 657 99 | 1,868 91 |
| Washington. | 484 00 | 31 81 | 153 79 | 11 80 | 572 87 | 1,254 27 |
| Webster .... | 790 80 | 1,215 01 | 407 11 | | 895 00 | 3,307 92 |
| Wellington . | 531 70 | 560 95 | 221 16 | | 388 75 | 1,702 56 |
| Willard .... | 346 55 | 296 50 | 36 12 | 9 41 | 675 00 | 1,363 58 |
| Wyman .... | 145 00 | 152 62 | 37 11 | 70 35 | 414 00 | 795 47 |
| All Schools . | 257 82 | 609 33 | 1,955 89 | 492 10 | 257 50 | 3,572 64 |
| | $12,285 65 | $9,780 36 | $4,361 26 | $2,200 62 | $17,786 57 | $46,614 46 |

## Military Department.

Repairs on the Shooting Station, Rifle Pits and Targets, including $60.00 for rent of land for same, has cost $103.55. Three rooms on the fourth floor of the Armory, in Ward One City Building, Brattle Square, has been assigned to the Military department, the same repaired and furnished at the cost of $468.90.

The armory in the Ward Four City Building, Central Square, has received repairs and furniture costing during the year, $386.61.

### Inspection of Wires.

The Inspector of Wires has had conveniently arranged quarters furnished on the third floor of the Ward One City Building, Brattle Square. The same has been painted, whitened and tinted, with numerous other changes involving an expense of $330.42. These changes afford this department (as admitted by its Superintendent) the best arranged Battery and Sleeping rooms to be found in New England.

### Chemical House, Central Square.

The convenience afforded men who sleep at the Chemical House is very limited. In 1891 two men lived there, the past year another has been added. The only available room and in which the last man is obliged to sleep, is not suitable for the purpose, being on the first floor, with no outside light and poor ventilation. Hired rooms are occupied by a family on the second floor which should be devoted to the use and comfort of men of the department. This is the only building owned by the city where rooms are let. I therefore recommend that notice be given to vacate at an early date, and that said rooms be put to use for the purpose named.

### Bath House.

The expense on the bath house during the year, aside from the expenses of a janitor, has been very slight. It will be necessary, however, before its use another season, to paint both inside and out, to regulate its ballast, and make numerous repairs which its exposure to rough weather continually make upon it. To meet said expenses it is respectfully recommended that $350.00 be appropriated for the purpose. Janitor's salary, $325.00.

### Fire Department.

#### NEW ENGINE HOUSE, WARD THREE.

Early in the month of March an advertisement was inserted by this department in the Cambridge Press, inviting parties to offer plans for a new Engine House, since erected on the corner of Otis and Third Streets, East Cambridge, and referring all to the Chief of the Fire Department for necessary information relative to

requirements. Four plans were submitted, and those of Mr. John E. Muldoon were accepted. Another advertisement was inserted in the Cambridge Press, May 20, asking for proposals for building a brick Engine House according to the plans adopted, the same to be received at this office until May 28, at 10 o'clock A. M. At the time stated, the bids were opened by authority of the Mayor, and forwarded to him, resulting finally in the award of the contract to "The Leach, Grant Co.," for the sum of $14,987.00. By vote of the Board of Aldermen the selection and adoption of the plan best adapted for the purpose was left to the united action and decision of the Chief of the Fire Department and the Superintendent of Public Buildings, resulting in the adoption of plans as above stated. Of the wisdom of this action the public is by this time aware. Only words of general commendation have reached this office. Its impressive features of artistic beauty, its stability, convenience and character have warranted general admiration. In reply to an advertisement in the Cambridge Press September 17, plans and bids were received September 26, for furnishing and setting a steam-heating apparatus, etc., in the Engine House referred to, and the plans of Lynch & Woodward, of Boston, were accepted and the contract awarded to them at their offer of $695.00.

The following is a statement of the appropriation, etc.

| | | |
|---|---|---|
| Appropriation | $20,000 00 | |
| By sale of Buildings on lot | 920 00 | |
| Additional appropriation | 2,000 00 | |
| Appropriation for Heating | 695 00 | |
| Total appropriation | | $23,615 00 |

EXPENDED.

| | | |
|---|---|---|
| Paid for land | $7,200 00 | |
| Examining titles and posting bills | 47 50 | |
| Printing | 20 67 | |
| Cleaning vaults | 5 90 | |
| Cambridge Water Works, labor | 28 91 | |
| M. F. Davlin, labor | 3 46 | |
| Inspection of Wires, wiring | 60 00 | |
| The Leach, Grant Co., Contractors | 6,000 00 | |
| Total expenditure | | $13,366 44 |
| Balance | | $10,248 56 |
| *Amount carried forward* | | $10,248 56 |

| | | |
|---|---|---|
| *Amount brought forward* | | $10,248 56 |
| AMOUNTS TO BE PAID. | | |
| The Leach, Grant Co. | $8,987 00 | |
| Lynch & Woodward, Heating | 695 00 | |
| Extra expense on stalls | 15 00 | |
| Partition in attic and floor paper | 20 00 | |
| Extra plumbing | 8 00 | |
| Architect's commission | 449 61 | |
| Total | | $10,264 61 |
| Deficit | | $16 05 |

## Engine House, North Avenue.

In April last, by reason of a large fire on North Avenue, Engine House No. 4 was seriously damaged, causing an outlay of nearly $425. The owners of the property destroyed have since that time erected a new building, much to the detriment of the Engine House, as it has been built so close to the line that it shuts off light and air from the members who live there. The loss thus sustained is of a serious nature, and, added to defects which before existed, renders the whole structure in its present condition inadequate for an Engine House. A more favorable location would be of great advantage. Portions of the building are at present used as a Ward room and Police Station. There are vacant lots on the corner of Blake Street and North Avenue and Creighton Street and North Avenue, either of which would be far more suitable and better adapted for an Engine House, Police Station and an enlarged Ward room than the present site. I would respectfully recommend that the matter receive consideration at an early date.

The amount expended for care and repair of Engine Houses during the year was as follows:

| | |
|---|---|
| Engine House No. 1, Brattle Square | $113 86 |
| Engine House No. 2, Main Street | 370 04 |
| Engine House No. 3, Fourth Street | 63 72 |
| Engine House No. 4, North Avenue | 448 06 |
| Engine House No. 5, Inman Square | 519 37 |
| Engine House No. 6, River Street | 175 63 |
| Chemical House No. 1, Central Square | 101 13 |
| Hook and Ladder House No. 1, Brattle Square | 20 78 |
| Hook and Ladder House No. 2, Portland Street | 405 52 |
| Total | $2,218 11 |

## Police Department.

The amount expended for the care and repair on Police Stations has been as follows:

| | |
|---|---|
| Police Station 1, Brattle Square | $480 84 |
| Police Station 2, Central Square | 187 75 |
| Police Station 3, Fourth Street | 55 40 |
| Police Station 5, North Avenue | 21 78 |
| Total | $745 77 |

## Election Expenses.

| | |
|---|---|
| Appropriation | $600 00 |
| Additional | 600 00 |
| Additional | 325 46 |
| Total appropriation | $1,525 46 |
| Expended | $1,525 46 |

Owing to the increase in the number of Voting Precincts and the charge to this appropriation of sundry bills for rents of halls for caucuses held during the year 1891, the amount appropriated was not sufficient to meet the expenses, therefore there is a deficit of $180, which amount is included in the estimate asked for the present financial year.

## Care and Repair of City Buildings.

### CITY HALL.

| | |
|---|---|
| For Fuel | $1,442 20 |
| Gas and Electric Lighting | 1,124 03 |
| Furnishing and Supplies | 1,048 97 |
| General Repairs | 815 01 |
| Janitor | 1,210 12 |
| Engineer | 1,040 00 |
| Fireman | 336 00 |
| Watchman | 735 00 |
| Extra Labor, cleaning, etc. | 2,186 15 |
| | $9,937 48 |

WARD ONE BUILDING, BRATTLE SQUARE.

| | |
|---|---|
| For Fuel | $761 99 |
| Gas | 692 63 |
| Janitor | 1,346 14 |
| General Repairs | 1,080 33 |
| Miscellaneous Furnishings | 727 37 |
| Lighting Tower Clock | 120 00 |
| | $4,728 96 |

WARD FOUR BUILDING, CENTRAL SQUARE.

| | |
|---|---|
| For Fuel | $482 80 |
| Gas | 365 68 |
| Janitor | 1,260 98 |
| General Repairs | 423 26 |
| Miscellaneous Furnishings | 285 00 |
| | $2,817 72 |

CITY HALL, CENTRAL AND BRATTLE SQUARE BUILDINGS.

During the past year I was advised by the Committee on Public Property to make a comparison in the expense for help in running the three principal city Buildings, Ward One, Ward Four, and City Hall, and the following report was presented to the Committee: —

WARD ONE BUILDING, BRATTLE SQUARE.

| | |
|---|---|
| Pay of Janitor | $1,400 00 |
| Paid by him for extra help | 494 00 |
| Leaving a salary of | $906 00 |

A portion of this building is used for a Police Station, also Court and Ward room; it is heated by two boilers, and necessitates the handling of 125 tons of coal. The janitor has the entire supervision of the building, care of the clock in the tower, and he shovels all of the snow from the sidewalks around the same during the winter season.

WARD FOUR BUILDING, CENTRAL SQUARE.

| | |
|---|---|
| Pay of Janitor | $1,400 00 |
| Paid by him for help | 400 00 |
| Leaving a salary of | $1,000 00 |

A portion of this building is occupied for police purposes, ward room, Overseers of the Poor and Associated Charities; it is heated by two boilers, and the janitor performs the duties similar to those at the buildings in Ward One.

CITY HALL, MAIN STREET.

| | |
|---|---|
| Pay of Janitor | $1,200 00 |

Nothing is paid out by him for extra help, therefore it leaves him his full salary.

| | |
|---|---|
| Paid by the city for Assistant Janitor | 520 00 |
| For two permanent women | 832 00 |
| Three women, Fridays and Saturdays | 312 00 |
| Engineer | 1,000 00 |
| Watchman | 728 00 |
| Fireman | 300 00 |
| Elevator Boy | 390 00 |
| | $5,282 00 |

The janitor has the supervision of the building as to cleanliness, but he has nothing to do with the heating, or shovelling snow from around the building during the winter season.

The following is a summary of the three buildings: —

| | |
|---|---|
| Ward One Building, total cost for care | $1,400 00 |
| Ward Four Building, total cost for care | 1,400 00 |
| City Hall, total cost for care | 5,282 00 |
| Total | $8,082 00 |

The foregoing figures are presented in order that exact information should be had as to the relative cost for the care of these three buildings. The assistant janitor at City Hall is a hard worker, and renders excellent service, and is entitled to an increase in compensation. It is true that the care of the City Hall requires constant attention, and any neglect in its neat appearance is at once criticised, and it is no doubt good policy, not only to see that no defects occur, but also that good help is employed and that they are remunerated in consideration of the services rendered. The matter of the extra temporary help at this building has been duly considered, and it was thought that a change could be made whereby the compensation paid them could be paid the present permanent women and assistant janitor, which would then not make any increase in the present expenses; but such a course is hardly deemed expedient at this time. I would recommend that the pay of the assistant janitor be fixed at $2.00 per day. The reason for going into the details of this matter is that so much has been said relating to the extraordinary expense for the care of the City Hall. While the

charge is somewhat large, still there can be found no way just at present to make any material change.

### ASSISTANT IN THIS DEPARTMENT.

April 21, Mr. James Richardson was appointed assistant to this office, at a salary of $1,000.00 per year. Of the wisdom of this appointment his faithful services will speak. He has taken hold of the duties with zeal and interest, and has proved a valuable assistant to this department.

### FOURTH STREET POLICE STATION.

On the evening of September 13, authority by the Board of Aldermen was given the Superintendent of Public Buildings to engage an architect to prepare plans and specifications for the alteration and reconstruction of the building on Fourth Street, now occupied by the Fire and Police Departments. Said plans were to be prepared under the direction of the Chief of Police and others immediately interested, and the cost of the plans and specifications were to be paid from an appropriation to be thereafter made. In compliance therewith, the Superintendent of Public Buildings engaged Mr. C. H. McClare, architect, to prepare the work, and after several weeks of close study and application, frequent consultations with the Chief of Police, his Captains, and the Superintendent of Public Buildings, the plans were completed. An advertisement was inserted in the Cambridge Press during November, inviting estimates and bids on said work; the same were received and opened by authority of the Mayor, and were immediately forwarded to him with the recommendation that $16,000.00 be asked for as an appropriation. A communication from His Honor was sent to the Board of Aldermen recommending an appropriation for the amount named; the matter was referred to the Committee on Finance, and at this date the matter rests. While it had been urged that this work be commenced at once, the fact is apparent that the cold season is upon us, and the failure to complete plans, get bids and the necessary appropriation some weeks earlier, as intended, leads to the conclusion that good judgment will demand the postponement of the work until another spring. No inconvenience will result from the delay, and conditions can remain as they are at present.

I submit estimates of the probable cost for repairs which it will be necessary to make on school houses and public buildings during

the ensuing year. So far as is apparent now there will be required for ordinary repairs on school houses, as follows:

| | | | |
|---|---|---|---|
| Allston school house | $432 00 | *Amount brought up* | $3,553 00 |
| Agassiz school house | 540 00 | Putnam school house | 398 00 |
| Boardman school house | 105 00 | Peabody school house | 90 00 |
| Bridge school house | 70 00 | Quincy school house | 50 00 |
| Cushing school house | 50 00 | Reed school house | 100 00 |
| Corlett school house | 60 00 | Riverside school house | 450 00 |
| Dana school house | 296 00 | Shepard school house | 145 00 |
| Dunster school house | 68 00 | Sargent school house | 85 00 |
| Felton school house | 90 00 | Stearns school house | 195 00 |
| Gannett school house | 95 00 | Thorndike school house | 135 00 |
| Gore school house | 470 00 | Tarbell school house | 95 00 |
| Harvard school house | 260 00 | Wellington Grammar | 150 00 |
| Holmes school house | 67 00 | Wellington Primary | 180 00 |
| Latin school house | 300 00 | Washington school house | 180 00 |
| Lassell school house | 100 00 | Webster school house | 450 00 |
| Lowell school house | 100 00 | Willard school house | 90 00 |
| Morse school house | 200 00 | Wyman school house | 85 00 |
| Otis school house | 250 00 | | |
| *Amount carried up* | $3,553 00 | Total | $6,431 00 |

On city buildings there will be required as follows:

| | |
|---|---|
| City Hall | $850 00 |
| Central Square building | 500 00 |
| Brattle Square building | 700 00 |
| Ward Rooms | 100 00 |
| Total | $2,150 00 |

## Fire Department.

The estimated appropriation to meet the necessary repairs and improvements in this department for the ensuing year is as follows:

| | |
|---|---|
| Engine House No. 2, Main Street | $50 00 |
| Engine House No. 3, corner Otis and Third Streets | 300 00 |
| Engine House No. 4, North Avenue | 150 00 |
| Engine House No. 5, Inman Square | 150 00 |
| Engine House No. 6, River Street | 60 00 |
| Chemical House No. 1, Central Square | 63 00 |
| Hook and Ladder and Engine No. 1, Brattle Square | 145 00 |
| Hook and Ladder No. 2, Portland Street | 150 00 |
| Total | $1,068 00 |

### Police Department.

| | |
|---|---|
| Station One, Brattle Square | $50 00 |
| Station Two, Central Square | 100 00 |
| Station Three, Fourth Street | 75 00 |
| Station Five, North Avenue | 50 00 |
| Total | $275 00 |

### Election Expenses.

An estimate is herewith given of Election Expenses for the year ending Nov. 30, 1893, as follows:

| | |
|---|---|
| Bills not paid due on the last State Election | $180 00 |
| The pay of janitors for services, two elections | 325 00 |
| Extra compartments and work for preparation for two elections | 358 00 |
| Hall rent for caucuses | 180 00 |
| Expressing | 15 00 |
| Rent of four precincts | 140 00 |
| Sawdust | 10 00 |
| Lamps and oil | 20 00 |
| Coal | 7 00 |
| Total | $1,235 00 |

## Real Estate Belonging to the City.

| Building. | Location. | Feet of Land. | Valuation. |
|---|---|---|---|
| *Schools.* | | | |
| Washington | Brattle Street | 14,951 | $37,000 00 |
| New High | Broadway | 14,366 | 220,000 00 |
| Corlett | Holworthy Street | 10,000 | 3,600 00 |
| Agassiz | Sacramento " | 19,689 | 24,000 00 |
| Cushing | Cushing " | 14,787 | 4,000 00 |
| Dunster | Concord Avenue | 10,000 | 6,000 00 |
| Holmes | Hilliard Street | 11,182 | 10,500 00 |
| Lowell | Lowell " | 12,033 | 9,000 00 |
| Quincy | Mason " | 8,469 | 14,200 00 |
| Riverside | Putnam Avenue | 11,198 | 7,600 00 |
| Old High | Fayette Street | 37,828 | 55,000 00 |
| Latin | Lee " | 10,100 | 15,000 00 |
| Wellington | Columbia " | 16,670 | 21,700 00 |
| Allston | Boardman " | 15,193 | 22,600 00 |
| Harvard | Inman " | 20,494 | 52,000 00 |
| Bridge | Pioneer " | 4,646 | 1,900 00 |
| Dana | Centre " | 14,317 | 6,300 00 |
| Felton | Amory " | 15,090 | 10,500 00 |
| Gannett, old | Columbia " | 8,803 | 4,500 00 |
| Gannett, new | Jefferson " | 15,434 | 15,000 00 |
| Sargent | Broadway | 9,995 | 7,000 00 |
| Stearns | Harvard Street | 10,050 | 8,000 00 |
| Putnam | Fourth " | 11,900 | 68,300 00 |
| Thorndike | Thorndike " | 10,027 | 34,000 00 |
| Gore | Gore " | 9,900 | 29,000 00 |
| Lassell | Charles " | 10,000 | 10,500 00 |
| Otis | Otis " | 8,270 | 16,000 00 |
| Webster | Upton " | 25,839 | 59,000 00 |
| Boardman | Windsor " | 10,018 | 16,500 00 |
| Mason | Front " | 10,000 | 10,000 00 |
| Tarbell | Griggs " | 19,500 | 12,000 00 |
| Willard | Lake " | 20,079 | 25,000 00 |
| Morse | Brookline " | 25,650 | 32,000 00 |
| Peabody | Linnean " | 21,813 | 31,500 00 |
| Shepard | North Avenue | 14,755 | 27,000 00 |
| Reed | Reed Street | 12,000 | 4,500 00 |
| Wyman | Spruce " | 14,347 | 8,400 00 |
| *City Buildings.* | | | |
| Ward 1 | Brattle Square | 16,153 | 69,700 00 |
| Ward 4 | Central " | 13,028 | 60,500 00 |
| Old City Hall | Main Street | 12,881 | 29,300 00 |
| New City Hall | Main " | 48,474 | 248,500 00 |
| H. & L. House | Portland " | 11,931 | 15,000 00 |
| Engine House No. 2 | Main " | 3,150 | 8,000 00 |
| Engine House No. 3 | Fourth " | 4,220 | 11,100 00 |
| Engine House No. 4 | North Avenue | 6,516 | 10,000 00 |
| Engine House No. 5 | Inman Square | 6,000 | 13,000 00 |
| Engine House No. 6 | River Street | 4,924 | 14,500 00 |

### Buildings Belonging to the City Not Occupied.

The question is often asked, "Will the city sell the old City Hall, the Mason School building and the Latin School building estates on Main and Lee Streets?" These buildings are not in use, and the future disposal of them will be a matter worthy of early consideration.

### Estimate of Appropriations Required for this Department.

SCHOOL HOUSES, CARE AND REPAIR.

| | | |
|---|---|---|
| Repairs | $6,500 00 | |
| Janitors | 18,424 64 | |
| Fuel | 14,000 00 | |
| Supplies | 4,000 00 | |
| Janitors, Evening Schools | 600 00 | |
| Engineer, Evening High School | 300 00 | |
| Electrics: Evening and Drawing Schools | 1,100 00 | |
| Gas | 900 00 | |
| | | $45,824 64 |

AMOUNTS TO BE RE-APPROPRIATED.

| | | |
|---|---|---|
| Wellington School | $11,950 00 | |
| New Engine House, Ward 3 | 10,248 50 | |
| | | $22,198 50 |

SPECIAL APPROPRIATIONS.

| | | |
|---|---|---|
| New English High School | $1,200 00 | |
| Manual Training School | 200 00 | |
| Old High School | 1,620 00 | |
| Wellington School | 2,200 00 | |
| Sanitary Arrangements, various schools | 3,325 00 | |
| Flags | 100 00 | |
| | | $8,645 00 |

CITY BUILDINGS, CARE AND REPAIR.

| | | |
|---|---|---|
| For Repairs | $2,150 00 | |
| Janitors, Engineer and Extra help | 8,400 00 | |
| Fuel | 3,500 00 | |
| Gas and Electric Lights | 2,500 00 | |
| Supplies | 2,000 00 | |
| Lighting Tower Clock | 120 00 | |
| Janitors for Ward Rooms | 175 00 | |
| | | $18,845 00 |
| *Amounts carried forward* | | $95,513 14 |

| | | |
|---|---|---|
| *Amount brought forward* | | $95,513 14 |
| For Election Expenses | | 1,235 00 |
| Shooting Station | | 100 00 |
| Fire Department | | 1.068 00 |
| Police Department | | 275 00 |

BATH HOUSE.

| | | |
|---|---|---|
| For Repairs | $350 00 | |
| anitor | 325 00 | |
| | | 675 00 |

INCIDENTALS.

| | | |
|---|---|---|
| For Superintendent's Salary | $1,750 00 | |
| Assistant's Salary | 1,000 00 | |
| Horse board, care of clocks, etc. | 1,008 00 | |
| | | 3,758 00 |
| Total appropriation asked for | | $102,624 14 |

## Recapitulation.

| | | |
|---|---|---|
| For school house, care and repair | $45,824 64 | |
| New High School | 1,200 00 | |
| Manual Training School | 200 00 | |
| Old High School | 1,620 00 | |
| Wellington School ($11,950 re-appropriated) | 14,150 00 | |
| Sanitaries, sundry Schools | 3,325 00 | |
| Flags | 100 00 | |
| Total for school houses | | $66,419 64 |
| For City Buildings, care and repair | $18,845 00 | |
| Fire Department | 1,068 00 | |
| Police Department | 275 00 | |
| Bath House | 675 00 | |
| Shooting Station | 100 00 | |
| New Engine House (re-appropriation) | 10,248 50 | |
| Total for City Buildings | | 31,211 50 |
| For Incidental Expenses | | 3,758 00 |
| Election Expenses | | 1,235 00 |
| Total appropriation asked for | | $102,624 14 |

## Remarks.

In considering the cost of the erection and care of schools and public buildings, it must be kept in mind that the growth of the city during the past few years, not only in population and resources, but in the demands of public taste, has been very pronounced. It

is safe to say that the day of the old-fashioned school houses, with their meagreness of appointments, not to mention a tendency of untidiness and dilapidation that was sometimes suffered to gather force, is rapidly going by, if it has not already ended, and with it the day of inferior accommodations, of poorly equipped engine houses and police stations, and of cramped and inconvenient offices for the transaction of public business. It is not intended in these comments, indeed it would be hardly right, to condemn the city buildings of the past; they were good in their day; they reflected the wisdom of the times, and served the simpler purposes to fair if not general satisfaction, but they will not answer the new and heavier demands of the Cambridge of to-day. The public does not ask for luxurious or extravagant appointments in the city buildings, but rather for light, air, commodiousness, convenience, cleanliness, solidity and durability. Much has been done of late in response to this sort of demand about public buildings. In the line of school houses, for instance, the past seven years have given us the New Gannett, Putnam, Peabody, Morse and the English High School buildings, with such important alterations in the Latin and Wellington as have made them practically new structures, all involving an expense of not far from half a million of dollars. One of these buildings, that of the English High School, undoubtedly reflects the quickening given to the public sense by the generous donor of the City Hall and Public Library; and the question of maintenance has become a larger one in proportion as the public buildings have grown in number, magnitude and equipment. This is obvious to those who know the necessary cost of keeping the new City Hall in its present admirable condition; it is not obvious to those who have not yet grasped the fact of the city's rapid expansion.

In closing, I desire to express to the Committee on Public Property my heartfelt appreciation for the valuable assistance rendered me during the year — ready at all times to offer their advice, and always willing to lend their support in the interest of the public good.

Respectfully submitted,

BENJAMIN H. STEELE,

*Superintendent of Public Buildings.*

# REPORT OF THE INSPECTOR OF BUILDINGS.

---

Office of the Inspector of Buildings,
City Hall, Dec. 1, 1892.

*To the Honorable the City Council of Cambridge: —*

I have the honor to submit my seventh annual report relating to the business of this department for the year ending Dec. 1, 1892.

It is gratifying again to report that activity in building operations has continued unabated during the year. Cambridge is fast gaining in population, wealth, business and industrial enterprise, while the demands for real estate keep up to its increase in value. By reference to the annexed tables it will be seen that 592 permits have been issued during the year for building, alterations and repairs, and that 249 examinations have been made in cases of dangerous conditions, violations of the building ordinances, etc. Builders have promptly applied and secured permits, and general compliance has been accorded to the requirements of the building ordinances of the city.

Following is a table showing the number and character of alterations ordered, where the services of the Inspector of Buildings has been required in the interest of public safety :

| | |
|---|---|
| Buildings in dangerous condition | 20 |
| Dangerous flues | 40 |
| Woodwork too near flues | 56 |
| Weak foundations | 19 |
| Fire checks ordered | 45 |
| Violation of the building ordinance | 21 |
| Notices to the State Inspector for fire escapes | 18 |
| Inspection of buildings to move | 26 |
| Funnels outside of house | 4 |
| Total | 249 |

The following table, showing the number of permits granted in each ward for buildings, etc., and the uses for which they were intended:

| BUILDINGS. | WARDS. 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Dwelling-houses, in blocks | 15 | 31 | 5 | 11 | 8 |
| Single dwelling-houses | 65 | 59 | 12 | 38 | 89 |
| Addition to houses | 23 | 15 | 7 | 22 | 8 |
| Storage | 6 | 6 | 1 | 6 | 7 |
| Cellar walls | 2 | 6 | 1 | 6 | |
| Stables | 12 | 19 | 5 | 10 | 22 |
| Factories | | 7 | 3 | 2 | 4 |
| Carriage-houses | 2 | | | 1 | |
| Offices | 1 | 1 | 2 | 1 | 3 |
| School houses | 3 | | | | |
| College buildings | 1 | | | | |
| Churches | | 2 | | | 2 |
| Shops | 1 | 1 | | 3 | 5 |
| Bakeries | 1 | 1 | 1 | 1 | |
| Club-houses | 1 | | | | |
| Green-houses | 1 | | | | 1 |
| Engine-houses | | 1 | 2 | | 1 |
| Steam boilers | 1 | | 1 | 1 | |
| Photo. Telescope building | 1 | | | | |
| Tank house | | | | 1 | |
| Dormitories | 3 | | | | |
| Dry-houses | | 1 | | | |
| Laundrys | | | 1 | | |
| Chimneys | 1 | 2 | | 4 | |
| Libraries | 2 | | | | |
| | 142 | 152 | 41 | 107 | 150 |

Total . . . . . 592

Of the foregoing permits, 541 were issued for wooden buildings, 26 for brick and stone buildings, and 25 for sundry purposes, making a total of 592.

Those of brick or stone are as follows:

| | |
|---|---|
| Factories | 5 |
| Dwellings and stores | 7 |
| Boiler houses | 3 |
| Offices | 3 |
| College buildings | 2 |
| Engine house | 1 |
| *Amount carried up* | 21 |
| *Amount brought up* | 21 |
| School houses | 2 |
| Dry-houses | 1 |
| Stable | 1 |
| Store house | 1 |
| Total | 26 |

Number of permits granted for each month during the years 1891 and 1892:

| | 1891. | 1892. |
|---|---|---|
| December | 14 | 27 |
| January | 14 | 23 |
| February | 16 | 24 |
| March | 63 | 55 |
| April | 82 | 72 |
| May | 52 | 72 |
| June | 63 | 90 |
| July | 54 | 59 |
| August | 81 | 56 |
| September | 58 | 43 |
| October | 54 | 39 |
| November | 29 | 32 |
| Totals | 580 | 592 |

Respectfully submitted,

BENJAMIN H. STEELE,

*Inspector of Buildings.*

# REPORT OF THE COMMITTEE ON SOLDIERS' AID.

---

The Committee on Soldiers' Aid submits to the City Council its report for the year ending Nov. 30, 1892.

| | |
|---|---|
| The amount paid as regular State aid was | $13,088 75 |
| The amount paid to indigent soldiers and sailors was | 3,392 00 |
| The amount paid as soldiers' relief was | 5,802 00 |
| The amount paid for the burial of deceased indigent or friendless soldiers or sailors was | 585 00 |
| The amount paid to the clerk and agent employed in the examination of settlements, etc., was | 890 71 |
| Carriage hire | 8 00 |
| Printing and stationery | 80 00 |
| Aid by cities and towns | 162 23 |
| Ambulance fee, C. W. Dailey | 2 00 |
| Board and care of sundry persons | 1,163 16 |
| Car tickets | 15 00 |
| Fuel | 27 00 |
| Medicine | 2 45 |
| Sundry supplies | 44 00 |
| Total | $25,262 30 |
| The amount received from the Commonwealth was | 13,598 00 |
| The amount received from other towns and cities was | 2 00 |
| For sundry authorized payments which were not paid | 132 50 |
| | $13,732 50 |

There are now upon the State aid list 265 persons, and upon the list of indigent soldiers and sailors 23. The number of persons upon the soldiers' relief act list is 65.

All of which is respectfully submitted,

WM. M. TOWNSEND,
WILLIAM A. BANCROFT,
JOHN R. FAIRBAIRN,
WILLIAM R. HOWLAND,
E. BURT PHILLIPS,
*Committee on Soldiers' Aid.*

# REPORT OF THE BOARD OF CEMETERY COMMISSIONERS.

---

In Board of Cemetery Commissioners,
Cambridge, Dec. 27, 1892.

*To the Honorable the City Council of the City of Cambridge:—*

The Board of Commissioners of the Cambridge Cemetery respectfully submits its thirty-ninth annual report, the same being for the year ending Nov. 30, 1892.

| | |
|---|---|
| The amount appropriated at the beginning of the year was | $17,000 00 |
| The total amount of expenditures was | 16,791 09 |
| Balance of appropriation unexpended | $208 91 |

For a detailed account of expenses reference is made to the Auditor's report.

The receipts of the year have been as follows:

| | |
|---|---|
| Burial and tomb fees | $4,661 00 |
| Care of lots | 3,989 12 |
| Sale of lots and graves | 8,120 58 |
| Foundations, brick graves, etc. | 1,440 51 |
| Interest on Cemetery Fund | 981 12 |
| Sundries | 325 00 |
| Total | $19,517 33 |
| The estimated revenue was | $17,000 00 |
| The actual revenue was | 19,517 33 |
| Excess of revenue over estimate | $2,517 33 |

By vote of the City Council the excess in revenue in all departments, as well as unexpended balances of appropriations, has been added to the department appropriations respectively. Accordingly, the appropriation for this department has been increased to the sum of $19,517.33, and the net balance unexpended of the Cemetery account equals $2,726.24.

The season of 1892 has been a remarkably busy one. Besides

the care ordinarily bestowed upon the avenues and paths, a large amount of grading has been completed. In the portion of the Cemetery hitherto unused, new ranges have been laid out, and a large number of lots and graves prepared, so that there is now ready for sale a greater number of desirable lots and graves than ever before. With little or none of freezing or rainy weather, the force of laborers has been employed in the work of grading for a longer period than has been heretofore possible.

The Superintendent's report to this Board, from which we briefly quote, presents a synopsis of the result of this labor. Compared with the season of 1891 the report shows the following results, viz.:

| | 1891 | 1892 |
|---|---|---|
| Number of public ranges prepared | 1 | 10 |
| Estimated value of same | $1,250 00 | $11,240 00 |
| Number of lots prepared | 13 | 21 |
| Estimated value of same | $1,950 00 | $5,255 14 |
| Number of lots ready for sale | 130 | 163 |
| Estimated value of same | $40,893 50 | $50,109 69 |
| Number of single graves ready for sale | 5 | 54 |
| Estimated value of same | $190 00 | $1,080 00 |
| Number of interments | 627 | 659 |
| Number of interments in Cemetery (total) | 17,769 | 18,392 |
| Number of removals in 1892 to other Cemeteries | | 24 |
| Number of burials (Overseers of the Poor) | | 30 |

From these figures it appears that the percentage of ranges and lots prepared this year, with the number ready for sale, is far in excess of the season of 1891.

In connection with this matter of the grading and preparation of lots, it seems fitting to note the improvement made around Fountain Avenue. The grading of the lots on this avenue has required the exercise of much good judgment and skill, and the present admirable appearance of the vicinity is to be commended. By the changes in the contour of some of the old lots, and by utilizing what had hitherto been waste land, so far as any practicable purpose was subserved, this Board was able to prepare for sale several lots in a desirable portion of the grounds, facing the Lodge. The path on which these lots are bounded has been named Fountain Path, and they should command a ready sale.

For several years past it has been deemed proper by this Board to remark upon the decayed and unsightly condition of the fence and gateway at the entrance to the grounds. Early in the year a special committee of this Board carefully investigated the actual condition of the gateway and fence. Acting on the report of this committee, the Commissioners have appealed to the City Council to assist in the erection of a gateway by appropriating a sum sufficient for the purpose. Twenty-five hundred dollars ($2,500.00) was deemed a conservative estimate of the cost; and, as the Cemetery account shows a balance of more than that amount to its credit, it is confidently hoped that the appropriation will be made before the retirement from office of the present City Council, so that the completion of the improvement may not be delayed. This Board is a unit in the belief that a new gateway and fence adjoining is a necessity, and that the removal of the existing structure is entirely in accord with the views of lot owners and the sentiment of the public generally.

There are two hundred and six (206) lots placed under perpetual care and the number is annually increasing. The system of receiving in trust only such sums for each lot as will provide for its proper care and maintenance, has proved advantageous both to the city and to the lot owners.

In this connection the following items may be of interest:

| | |
|---|---|
| Number of lots placed under perpetual care in 1892 | 16 |
| Number of lots placed under perpetual care (total) | 206 |
| Received for perpetual care in 1892 | $1,885 98 |
| Amount of fund for perpetual care of lots | $25,947 96 |
| Interest accumulations from invested fund | $860 70 |

We would respectfully call the attention of the City Council to the rapidly decreasing territory at the disposal of the Board for the purposes of interment. The recently acquired "Winchester Estate" will suffice for the needs of a few years only, and it may be deemed advisable to adopt measures toward securing the refusal of, if not actually acquiring, additional space. This can be done either by the purchase of contiguous lands or the selection of some location elsewhere.

It does not seem feasible to convert the marsh lands within the limits of the present Cemetery to the purposes of burial. In order to utilize the marshes for this purpose, steps must be taken to prevent the ingress and egress of tide-water. This can be accomplished

by building a retaining sea-wall and inside filling. A careful estimate of the cost of such an undertaking fixes the amount at $100,000.00. The direct expense necessarily precludes the possibility of using these lands for Cemetery purposes. Should the Commonwealth build a sea-wall, the immediate cost to the city would be lessened about sixty (60) per cent., and the project might seem feasible, did we not consider that, even if these lands could be prepared for use, the probability of being able to secure a sale for large lots would be a slight one, owing to the popular objection to such a location. The fact that, for a similar or less expenditure, an equal amount of unobjectionable territory could be secured elsewhere, is another reason for not favoring the reclamation of the marshes.

During the year the By-Laws of the Cemetery have been revised and printed, and are now ready for distribution to lot owners.

### Ward One Burial Ground.

The Burial Ground in Ward One has been given careful attention and is in good order. The old mile stone, which stood for so many years in Harvard Square, near the Dane Hall College Building, has been removed to a place within this Ancient Burial Ground, and properly set up at a point near the junction of North Avenue and Garden Street. It can be better preserved in this position than in its former exposed location. The expense of maintaining this Ground has been $180.00. For its maintenance during the coming season a special appropriation should be made.

### Soldiers' Lot.

The well-kept appearance of this Lot has been maintained. We would again note the limited space remaining for interments. During the year there have been eight (8) interments, making a total of ninety-nine (99).

The amount expended has been as follows:

| | |
|---|---|
| Amount expended for headstones | $279 00 |
| Amount expended for foundations | 28 80 |
| Amount expended for care and repairs | 76 20 |
| Total | $384 00 |

Before closing this report, we wish to express the regret of this Board at the retirement of Mr. Isaac S. Pear, who resigned in

September last. While a member Mr. Pear proved himself capable, energetic and conscientious, and on his retirement carried with him the respect and best wishes of the Board, and its members individually.

Mr. Charles O. Welch has been appointed to the vacancy.

Respectfully submitted,

GEO. S. SAUNDERS, *Chairman*,
JOHN F. O'BRIEN,
WM. A. BERTSCH,
CHAS. O. WELCH,
N. C. LOMBARD,
DAVID ELLIS,
} *Board of Cemetery Commissioners.*

# ANNUAL REPORT CITY ENGINEER.

---

OFFICE OF CITY ENGINEER, CITY HALL,
CAMBRIDGE, Dec. 1, 1892.

*To the Honorable the City Council:—*

The twenty-sixth annual report of the City Engineer, showing the operations and expenses of the Departments of Engineering and Sewers for the year ending Dec. 1, 1892, is herewith respectfully submitted.

## Office.

A brief statement of such work performed during the year as can be itemized is given below:

### For the Street Department.

| | |
|---|---|
| Number of street lines given | 150 |
| Number of street grades given | 217 |
| Number of cars measured (cracked stone) | 621 |
| Number of streets on which paving, curb, etc., was measured | 127 |
| Number of miscellaneous measures and surveys | 5 |
| Number of assessments prepared | 415 |
| Number of profiles prepared | 36 |

### For Sewer Department.

| | |
|---|---|
| Number of lines given | 87 |
| Number of grades given | 104 |
| Number of sewers measured | 54 |
| Number of plans or profiles prepared | 48 |
| Number of sewer assessments prepared | 180 |

### For Private Parties.

| | |
|---|---|
| Number of street lines given | 76 |
| Number of street grades given | 32 |

### Miscellaneous Work.

| | |
|---|---|
| Number of houses measured | 650 |
| Number of plans or profiles prepared | 17 |
| Number of surveys or levels made | 75 |
| Number of streets renumbered | 7 |
| Number of surveys at cemetery | 9 |

There have been employed during portions of the year fourteen persons, besides the clerk. Five of these and the clerk have been employed throughout the year. The work of the department has increased very much in the last few years, and it will be necessary to employ additional assistance in order to keep up with the demands on the department from the other departments and the public.

### New City Map.

There has been a great call for a new edition of the City Map. The last edition of the wall map was in 1874. The few remaining copies are of little value on account of the numerous changes and additions made in the city during the eighteen years since it was drawn. The edition of small maps made in 1881 was long since exhausted. A new issue of both sizes should be made the coming year.

### Financial.

| | | |
|---|---|---|
| The appropriation for Engineering was | $9,500 00 | |
| Transferred from Incidental Expenses | 402 11 | |
| Total | | $9,902 11 |
| Expended for salaries | $9,375 25 | |
| Expended for sundry supplies | 526 86 | |
| Total | | $9,902 11 |

## BRIDGES.

### Boylston Street Bridge.

The part of this bridge between the new work near the draw, and the abutment has been replanked the past season. The work was done by T. E. Ruggles & Co., at a cost of $493.55.

The bridge is now in good condition.

### Brookline Street Bridge.

This bridge is now in fair condition except that the spruce sheathing in the roadway should be renewed.

### First Street Bridge.

A contract for building the bridge at First Street over Broad Canal was made Jan. 14, 1892, with Messrs. Leavitt, Dailey & Crockett of Boston, for the sum of $6,200.00 and completed by them in June, 1892. Two dolphins or clusters of warping piles were afterward driven by Haskins & Randle, at a cost of $180.00. The total cost of the bridge was $6,692.44. The dredging made necessary by changing the channel to conform to the draw of the bridge was done by agreement by Henry M. Whitney, a large owner of land near the bridge. The bridge is of wood, built in a very thorough and substantial manner, having a width of forty-five feet and an opening of the draw-way of thirty-six feet.

### Huron Street Bridge.

As requested by vote of the Cambridge Water Board, passed April 27, 1892, plans and specifications were prepared for a bridge over the Watertown branch of the Fitchburg Railroad at Huron Street, as the same was laid out by the city, December, 1891. The contract for the granite abutments of the bridge was awarded to Rowe and Hall of Boston, and cost $4,271.20. The contract for the iron and steel superstructure was awarded to R. F. Hawkins, of Springfield, Mass. The metal work is now being erected and will be completed at an early day.

### River Street Bridge.

This bridge is now in good condition, except the spruce sheathing in the roadway should be renewed at once.

### Sixth Street Bridge.

The spruce sheathing of the roadway should be renewed the coming year.

### Third Street Bridge.

This bridge is now in fair condition.

### Walden Street Bridge.

As reported last year this bridge was found to be defective and was temporarily strengthened by an additional truss. The City Solicitor having failed to find sufficient grounds to warrant the city in endeavoring to compel the Fitchburg Railroad Company to rebuild the bridge, it was decided to rebuild the bridge at the

expense of the city. Plans and specifications were accordingly prepared for a steel and iron plate girder bridge, and on May 10, 1892, the contract for building the same was awarded to the King Bridge Company of Cleveland, Ohio, for the sum of $3,300.00. Owing to delays in getting material the Bridge Company failed to have the bridge completed on the time specified, viz.: Aug. 1, 1892, and the time was extended to Sept. 15, 1892. It was actually completed about the middle of October. The bridge is constructed largely of steel. The two main girders are 63 feet long and 6 feet high. There is a roadway 28 feet wide between the centre of main girders, and two sidewalks 7 feet wide, making the total width of bridge between railings of 42 feet. A 12-inch water pipe is carried beneath the floor of the westerly sidewalk through the sidewalk brackets. No settlement has yet been made with the Bridge Company. The contract for rebuilding such parts of the old abutments as were necessary and furnishing the new bridge seats and parapet stones, was awarded May 25, 1892, to John Moyle, of Sharon. The amount paid under this contract was $2,410.17.

### Western Avenue Bridge.

As noted in the last annual report, this bridge had become very much decayed and in an unsafe condition. Plans were accordingly prepared for rebuilding the part of the bridge between the abutment and the new work at the draw put in in 1891. A contract was made with William L. Miller, Sept. 29, 1892, who performed the work in a very prompt and satisfactory manner, the bridge being closed to travel twenty-eight days. This is now the most heavily timbered and substantial wooden bridge in the city. The total cost of the work including inspection, etc., was $5,049.32.

### Tannery Street Culvert.

The old stone culvert under Tannery Street has long been in bad condition. While the sewer was being put in the street was considered a good opportunity to rebuild the culvert, and the work was done by the sewer department and the expense, including two small catch basins, amounting to about $550.00, was paid by the Street Department.

### Streets Accepted.

The following exhibit shows the streets accepted and the grades established from Dec. 1, 1891, to Dec. 1, 1892.

| Street. | | | | | Plan. | | |
|---|---|---|---|---|---|---|---|
| Name | From | To | Length in feet. | Width in feet | Accepted | Made by | Date |
| *Applan Way | Garden Street | Brattle Street | 479 | 30 | Nov. 23, 1892 | City Engineer | Oct. 5, 1891 |
| *Cherry Street | Main Street | School Street | 188 | 30 | Nov. 23, 1892 | City Engineer | May 23, 1892 |
| *Concord Avenue | Fitchburg R. R. | Adams Street | 4,530 | 50 | Nov. 23, 1982 | City Engineer | April 1, 1891 |
| *Cushing Street | Belmont Street | Woodlawn Avenue. | 1,758 | 40 | Nov. 23, 1892 | City Engineer | Oct. 6, 1891 |
| Erie Street | Pearl Street | Brookline Street | 490 | 40 | May 18, 1892 | Arthur Hodges | July 9, 1884 |
| First Street | Main Street | Northerly | 265 | 60 | Jan. 20, 1892 | W. S. Barbour & A. Hodges | Dec. 7, 1874 |
| Fresh Pond Lane | Huron Street | Fitchburg R. R. | 440 | 40 | Dec. 2, 1891 | City Engineer | Nov. 1, 1891 |
| Hews Street | Western Avenue | Grigg Street | 282 | 40 | June 10, 1892 | W. A. Mason & Son | July 1891 |
| Hubbard Avenue | Raymond Street. | Easterly | 252 | 40 | Oct. 27, 1892 | W. A. Mason & Son | May 29, 1891 |
| Huron Street | Fitchburg R. R. | Concord Avenue | 4,820 | 70 | Dec. 23, 1891 / June 15, 1892 | E. F. Bowker | April 12, 1888 |
| Larch Street | Fresh Pond Lane | Easterly | 185 | 40 | Dec. 2, 1891 | City Engineer | Nov. 1, 1891 |
| Locke Street | Meacham Street | Northerly | 690 | 30 | April 27, 1892 | Chas. A. Pearson | Nov. 21, 1891 |
| Parker Street | Buckingham Street | Concord Avenue | 723 | 40 | Dec. 23, 1891 | City Engineer | July 25, 1891 |
| Portsmouth Street | Hampshire Street | Webster Avenue | 327 | 40 | Oct. 27, 1892 | E. F. Bowker | Aug. 25, 1892 |
| Prescott Street | Cambridge Street | Broadway | 294 | 40 | Dec. 2, 1891 | Gilbert Hodges | Oct. 2, 1891 |
| *School Street | Austin Street | Windsor Street | 637 | 30 | Nov. 23, 1892 | City Engineer | May 24, 1892 |
| State Street | Osborne Street | Westerly | 803 | 40 | Dec. 30, 1891 | E. F. Bowker | May 20, 1887 |
| Traill Street | Elmwood Avenue | Mt. Auburn Street | 460 | 40 | Sept. 14, 1892 | W. A. Mason & Son | April 8, 1892 |
| Whitney Avenue | Chestnut Street | Putnam Avenue | 301 | 30 | Dec. 2, 1891 | W. A. Mason & Son | May 16, 1891 |
| Woodbridge Street | North Avenue | Locke Street | 376 | 40 | Apr. 27, 1892 | Chas. A. Pearson | Nov. 21, 1891 |

*Grade established.

Total length of streets accepted during the year, 10,708 feet = 2.02 miles.

### Cemetery.

The calls for work at the Cemetery have been met as usual. At the request of the Commissioners sketches were prepared of a new entrance to the Cemetery, and one of the designs adopted. It is hoped that sufficient money may be appropriated to enable this much needed work to be done the coming year.

### Sewers.

There have been built during the year 12429.0 feet, or 2.354 miles of sewers, making the total mileage in the city 91.133 miles. The total cost of construction of these sewers to date, is $1,144,774.09.

There have been licensed as drain layers 21 persons, to whom have been granted 648 permits for doing work connected with private drains.

### Catch Basins.

In connection with the sewers, there have been 45 new catch basins built at a cost of $3,409.34. The work of cleaning the basins has been done as usual. 4,144 loads of dirt have been taken from 1,314 basins. Repairs have been made on 67 old catch basins.

### Bridge Street Sewer.

The dredging of flats about the mouth of this sewer was done by Boynton Brothers of Boston. 3,523 cubic yards of material was removed at a cost of $1,937.65. The total cost, including flushing, labor, etc., was $2,191.45, of which five-ninths were paid by the city of Somerville.

### Alewife Brook.

The work done last year in lowering the culverts and cleaning out the channel of the brook has made a great improvement in the condition of this brook. The closing of Muller's Tannery and the removal of the sewerage from the brook will still further help the matter.

### Metropolitan Sewer.

The " South Metropolitan Sewer " taking the sewerage of Waltham, Newton, Watertown, Brookline and a part of Boston, and having its outlet at Moon Island, is now completed and in operation.

On the "North Metropolitan Sewer" through which the sewerage from Cambridge must pass, and having its outlet at Deer Island, 60,020 feet, or $11\frac{3670}{1000}$ miles, are now constructed or under contract, out of a total length of 64,800 feet, from the end of the outfall at Deer Island to the end of the section in Cambridge in Waverly Street at Chestnut Street. Two contractors are now at work on as many sections on this sewer in Cambridge. On the Alewife Brook branch of this system of the 67,400 feet of sewer from the outlet to Concord Avenue at Alewife Brook 61,610 feet are now constructed or under contract. Work has recently begun on the section from the Mystic Pumping Works in Somerville along Alewife Brook to Concord Avenue. The total length of sewers in the "North Metropolitan System," completed, is about $15\frac{1}{2}$ miles. In the "South Metropolitan System" there is a total length of about 8.0 miles of sewer.

With the experience of this and the adjoining communities during the past season of the results of the foul condition of Charles River, it would seem as though steps should be taken to urge forward the completion of the uncompleted sections of this sewer, so that all sources of increased contamination of the river might be removed as soon as possible.

It seems possible that the lower section of this sewer might be completed and put in operation within the next year, and the Cambridge sewers now emptying into the river cut off.

To connect our sewers, especially those at Bridge Street, Binney Street, Willard Street, and Sparks Street with the Metropolitan Sewer, will necessarily involve considerable work in reversing and changing the parts of those sewers between the Metropolitan sewer and their outlets. To be ready for immediate use of the Metropolitan Sewer when it shall be completed, this work should be done the coming year.

## Financial.

SEWERS — CONSTRUCTION, SUNDRY SEWERS.

| | | |
|---|---|---|
| Appropriation | $20,000 00 | |
| Excess of revenue | 2,716 34 | |
| Total appropriation | | $22,716 34 |
| Expended | $18,659 93 | |
| Balance unexpended | 4,056 41 | |
| Total | | 22,716 34 |
| Receipts from assessments, etc. | | 12,716 34 |

SEWERS, MAINTENANCE.

| | | |
|---|---|---|
| Appropriation | $30,000 00 | |
| Transferred to Incidental Expenses | 4,500 00 | |
| Balance | | $25,500 00 |
| Expended | $23,664 56 | |
| Balance unexpended | 1,835 44 | |
| Total | | 25,500 00 |

A shed and locker at the sewer yard on Pilgrim Street was built at a cost of $522.00.

## Construction.

The details of the construction and the cost of sewers constructed during the year are shown in the following table. The construction of sewers has been done by the Superintendent of Sewers by day labor, under the general direction of the City Engineer.

## Sewers Constructed between Dec. 1, 1891, and Dec. 1, 1892.

| Location. | | | Construction. | | | | | | | Total cost. |
|---|---|---|---|---|---|---|---|---|---|---|
| Street | From | To | Material | Size in inches. | Av. depth of cut. | Manholes. | Lamp-holes. | Inlets. | Length in feet. | |
| Ashburton Pl... | Essex St ..... | Easterly ..... | Portland pipe. | 10 | 5.3 | | 1 | 17 | 168.1 | $82 12 |
| Avon Hill..... | Hillside Ave..... | Northwesterly ..... | " " | 10 | 8.3 | | 1 | 28 | 374.7 | 285 87 |
| Ballord Pl ..... | Putnam Ave..... | Easterly ..... | " " | 10 | 6.6 | 1 | 1 | 11 | 173.3 | 131 93 |
| Banks ..... | Near Stiles St ..... | Southerly ..... | " " | 12 | 8.4 | 1 | | | 97.1 | 123 25 |
| Bent ..... | Fifth St ..... | Easterly ..... | " " | 15 | 8.7 | | | 12 | 197.0 | 246 34 |
| Berkeley Pl..... | Berkeley St ..... | Southwesterly ..... | " " | 10 | 4.1 | | 1 | 16 | 256.8 | 94 10 |
| Brattle ..... | Mercer Circle..... | Southeasterly ..... | " " | 10 | 8.3 | 1 | 1 | 10 | 191.8 | 159 84 |
| Bristol ..... | End of old sewer..... | Berkshire St ..... | " " | 12 | 7.8 | | | 14 | 192.6 | 200 94 |
| Clary..... | Prospect St..... | Northwesterly ..... | " " | 10 | 6.7 | 1 | | 12 | 209.9 | 154 49 |
| *Dinsmore Ct... | Willard St ..... | Westerly..... ..... | Akron pipe. | 10 | 6.5 | | 1 | 14 | 187.7 | 486 63 |
| East..... | North St .... ..... | Northerly ..... ... | Portland pipe. | 12 and 8 | 6.4 | 1 | 1 | 18 | 211.2 | §332 77 |
| Elmwood Ave... | Traill St. ..... | Southerly ..... | " " | 10 | 8.7 | 1 | 1 | 17 | 257.0 | 200 85 |
| Emmons Pl ..... | Baldwin St..... | Westerly..... | " " | 10 | 6.4 | | 1 | 15 | 189.4 | 126 48 |
| Fayerweather .. | Vassal Lane ..... | Huron St..... .... | " " | 18 | 9.7 | 2 | | 48 | 707.5 | ‖1,823 78 |
| Franklin St. Pl.. | Franklin St..... | Northeasterly..... | " " | 8 | 6.1 | | 1 | 6 | 99.9 | 67 14 |
| Hall Pl..... | Buckingham St ..... | Northeasterly..... | " " | 10 | 5.9 | 1 | | 17 | 241.6 | 230 87 |
| Hampshire..... | Cambridge St ..... | Near the Somerville line | " " | 10 | 8.0 | 1 | 1 | 20 | 308.8 | 397 78 |
| Haskell ..... | Spruce St..... | North Ave ..... | " " | 12 and 10 | 6.3 | 1 | 1 | 30 | 452.1 | 248 63 |
| Hilliard Pl..... | Hilliard St ..... | Northwesterly ..... | " " | 10 | 7.7 | 1 | 1 | 12 | 163.1 | 199 48 |
| Hovey Ave..... | Cambridge St..... | Northerly ..... ..... | " " | 10 | 4.8 | 1 | | 14 | 232.6 | 142 59 |
| Huron (See Fayerweather St.). | Fayerweather St..... | Westerly..... | " " | 15 | 11.4 | | 1 | 24 | 298.5 | |
| Huron ..... | Sparks St ..... | Concord Ave..... | " " | 10 | 7.6 | 1 | | 28 | 352.8 | ¶390 44 |
| †Larch ... ..... | End of old sewer .... | Huron St..... | " " | 12 and 10 | 8.2 | 3 | | 60 | 853.6 | 1,343 95 |
| Leighton Ct. (See East St.)..... | East St..... | Westerly..... | " " | 10 | 5.7 | | 1 | 15 | 209.6 | |
| Leonard Ave.... | Cambridge St..... | Near Line St..... | " " | 12 and 10 | 6.0 | 2 | 1 | 47 | 620.7 | 461 25 |
| Main ..... | Sixth St ..... | Westerly..... | " " | 18 | 10.5 | | | 3 | 95.8 | 257 48 |
| Mason Ave..... | North Ave ..... | Easterly ..... | " " | 10 | 7.4 | 1 | | 20 | 310.1 | 210 58 |
| ‡Mercer Circle.. | End of old sewer..... | Brattle St ..... | " " | 12 | 7.9 | | | 2 | 113.9 | 298 97 |

*Pile foundation.

†Includes 257 feet on pile foundation.

‡Includes 66 feet on pile foundation.

§Includes cost of Leighton Ct.

‖Includes cost of Huron St., Fayerweather St. Westerly.

¶Includes cost of Sparks St.

## Sewers Constructed Between Dec. 1, 1891, and Dec. 1, 1892.

| Location. | | | Construction. | | | | | | | Total cost. |
|---|---|---|---|---|---|---|---|---|---|---|
| Street | From | To | Material. | Size in inches. | Av. depth of cut. | Man-holes. | Lamp-holes. | Inlets. | Length in feet. | |
| Norris | End of old sewer | Near Cedar St | Portland pipe. | 10 | 7.8 | 1 | | 28 | 354.2 | $314 37 |
| Prospect | End of old sewer | Near Somerville line | " " | 10 | 5.7 | | 1 | 2 | 48.3 | 56 90 |
| Quincy | End of old sewer | Near Harvard St | " " | 10 | 7.1 | | 1 | 20 | 129.6 | 106 52 |
| Rutland | Shepard St | Southerly | " " | 10 | 6.5 | 1 | 1 | 8 | 145.3 | 98 96 |
| Sargent | Railroad St | Spruce St | " " | 12 and 10 | 8 6 | 2 | | 64 | 791.3 | 722 05 |
| *Smart | Front St | Northerly | " " | 10 | 6.1 | | | 16 | 274.5 | 484 03 |
| Sparks (See Huron St.) | End of old sewer | Huron St | " " | 12 | 7.2 | 1 | | 1 | 55.9 | |
| Spruce | Hollis St | Haskell St | " " | 15 | 8.0 | 1 | | 29 | 400.6 | 527 30 |
| Talbot St. sewer outlet | End of old sewer | Harbor Commissioner's line | Wood. | 42 by 40 | 2.5 | | | | 250.0 | 2,214 88 |
| Traill | Mt. Auburn St | Elmwood Ave | Portland pipe. | 10 | 8.9 | 1 | | 32 | 456.2 | 337 91 |
| Walden | Mead St | North Ave | " " | 12 and 10 | 9.2 | 1 | 1 | 27 | 549.0 | 480 86 |
| Webster Ave | End of old sewer n'ly. | Windsor St | " " | 10 | 7.3 | 1 | 1 | 12 | 222.0 | 208 50 |
| Wells Pl | End of old sewer | Northerly and westerly | " " | 10 | 9.0 | 1 | 1 | 15 | 214.2 | 237 59 |
| Westacott Ct | Putnam Ave | Northeasterly | " " | 8 | 8.0 | | 1 | 8 | 131.9 | 77 40 |
| Wicklow | Dublin St | Northeasterly | " " | 10 | 8.8 | | 1 | 20 | 295.8 | 267 09 |
| Wilson Ave | Middlesex St | Easterly | " " | 10 | 8.3 | | 1 | 9 | 157.3 | 153 87 |
| Windsor | End of old sewer s'ly. | Webster Ave | " " | 10 | 6 2 | 1 | | 12 | 185.7 | 149 21 |
| | | | | | | 31 | 25 | 833 | 12,429.0 | $15,135 99 |

*Pile foundation.

## Sewers Reconstructed between Dec. 1, 1891, and Dec. 1, 1892.

| Location. | | | Construction. | | | | | | | Total cost. |
|---|---|---|---|---|---|---|---|---|---|---|
| Street | From | To | Material. | Size in inches. | Av. depth of cut. | Man-holes. | Lamp-holes. | Inlets. | Length in feet. | |
| Amory | Summer St | Southerly | Portland pipe. | 12 | 8.5 | | | 3 | 24.0 | $34 84 |
| Berkeley | Craigie St | Berkeley Pl | " " | 12 | 6.1 | 1 | | 13 | 234.9 | 273 11 |
| Essex | Austin St | Harvard St | " " | 15, 12 & 10 | 6.5 | 2 | 1 | 79 | 812.5 | 860 68 |
| Jefferson | Warren St | Harding St | " " | 12 and 10 | 8.1 | 2 | | 51 | 596.1 | 915 05 |
| *Mercer Circle | Angle in street | Near Brattle St | " " | 12 | 6.6 | | | 9 | 246.6 | 916 28 |
| Prospect | Cambridge St | Houghton St | " " | 12 | 7.3 | 1 | | 30 | 392.4 | 490 77 |
| Seventh | Cambridge St | Northerly | " " | 10 | 7.6 | | | 8 | 113.6 | 81 09 |
| Soden | Franklin St | Southerly | " " | 18 and 15 | 8.3 | | | 12 | 181.9 | 381 59 |
| Vine | Lowland Ave | Easterly | " " | 12 | 6.5 | | | 10 | 106.0 | 249 21 |
| | | | | | | 6 | 1 | 215 | 2,708.0 | $4,202 62 |

*Includes 221.7 feet on pile foundation.

## WATER WORKS.

### First Street Syphon.

In laying out First Street it became necessary to carry the water pipe across Broad Canal by an inverted syphon. The ends of the syphon were enclosed by wooden boxing constructed by the contractors for the bridge,— the pipe under the canal was made with flexible joints and bedded in a trench dredged for the purpose.

The total cost of this work was $1,713.43.

### Mt. Auburn Street Pipe Bridge.

The old wooden bridge which carried the two pipes supplying the "Cushing Street District" became very much decayed and it became necessary to renew the bridge. This was done by building a brick tower enclosing the upright portions of the pipes at each abutment of the bridge, and connecting these two towers by a U shaped steel girder, with arched covers of the same metal.

An 8-inch and a 6-inch water pipe was placed in the girder and the space around the pipes packed with wool waste. The work — except that connected with the water pipe — was done by Mr. M. N. Stearns, for $616.00.

### New High Service Reservoir.

Early in July investigations were begun for a site for a new high service reservoir. The necessary levels, boreings and plans were made and a site finally selected and the land since taken, situated on the Payson Road — being a part of the Payson Park so-called, in Belmont. The entire area taken, some $11\frac{455}{1000}$ acres, has since been levelled over preparatory to any work being done upon the reservoir.

### Stony Brook.

Water has wasted over the dam 202 days during the year, and for 164 days was below the crest of the dam. The highest water recorded was on March 11, 1892, when it reached elevation $82\frac{8}{100}$ or $1\frac{8}{100}$ feet above the crest of the dam. 96,300,000 gallons of water passed the dam on that day. The lowest water was reached Nov. 10, 1892, at elevation $69\frac{56}{100}$ or $11\frac{44}{100}$ feet below the crest of the dam.

Water was wasted over the dam during 202 days as follows: —

| | | |
|---|---|---|
| December, | 1891 | 21,377,100 gallons |
| January, | 1892 | 985,650,000 gallons |
| February, | " | 500,650,000 gallons |
| March, | " | 1,093,220,000 gallons |
| April, | " | 398,797,100 gallons |
| May, | " | 544,065,000 gallons |
| June, | " | 207,066,300 gallons |
| July, | " | 51,983,300 gallons |
| August, | " | 1,284,300 gallons |
| September, | " | ——— |
| October, | " | ——— |
| November, | " | ——— |

Making an aggregate of 3,804,093,100 gallons wasted during the year.

The usual data concerning rainfall will be found in the table appended.

## Parks.

In the early part of October, directions were received from His Honor, the Mayor, requesting for the newly appointed Committee on Parks, the preparation of plans and data relating to a proposed boulevard or park along the front of Charles River, and also the taking of the Clay Pits in North Cambridge.

Surveys, boreings and levels have since been made and the results and plans, as far as completed, have been submitted to His Honor, the Mayor, and the Committee on Parks.

Respectfully submitted,

L. M. HASTINGS,

*City Engineer.*

Table showing comparison by months of number of days in which rain fell, and total precipitation at Kendall Green, Roberts Dam, Fresh Pond and Harvard Observatory, Dec. 1, 1891, to Dec. 1, 1892.

| | | 1891. | 1892. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Total. |
| KENDALL GREEN | No. of days in which rain fell. | 9 | 13 | 3 | 7 | 2 | 11 | 10 | 7 | 7 | 5 | 6 | 11 | 91 |
| | Total precipitation. | 3.27 | 5.42 | 3.48 | 3.86 | .77 | 5.51 | 4.13 | 3.92 | 3.76 | 2.60 | 1.49 | 6.69 | 44.90 |
| ROBERTS DAM | No. of days in which rain fell. | 11 | 9 | 4 | 9 | 4 | 14 | 11 | 6 | 7 | 2 | 5 | 11 | 93 |
| | Total precipitation. | 3.48 | 4.71 | 2.45 | 4.08 | .89 | 5.35 | 3.91 | 2.16 | 5.27 | 1.99 | 1.58 | 5.30 | 41.17 |
| FRESH POND | No. of days in which rain fell. | 13 | 11 | 9 | 9 | 5 | 14 | 12 | 8 | 11 | 7 | 10 | 14 | 123 |
| | Total precipitation. | 6.78 | 4.32 | 2.46 | 3.56 | .77 | 6.06 | 4.23 | 2.53 | 6.11 | 1.84 | 2.15 | 5.04 | 41.85 |
| HARVARD OBSERVATORY | No. of days in which rain fell. | 9 | 12 | 8 | 9 | 5 | 14 | 8 | 7 | 8 | 7 | 9 | 11 | 107 |
| | Total precipitation. | 3.29 | 4.20 | 2.47 | 2.80 | .80 | 5.40 | 3.10 | 1.24 | 6.65 | 2.18 | 1.76 | 4.68 | 38.57 |

**Table Showing Rainfall at Kendall Green and Roberts Dam in Weston and at the Fresh Pond Pumping Station (Cambridge Water Works) and the Harvard Observatory, Cambridge, December 1, 1891, to December 1, 1892.**

| DAY OF MONTH. | 1891. DECEMBER. | | | | 1892. JANUARY. | | | | FEBRUARY. | | | | MARCH. | | | | APRIL. | | | | MAY. | | | | JUNE. | | | | JULY. | | | | AUGUST. | | | | SEPTEMBER. | | | | OCTOBER. | | | | 1892. NOVEMBER. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Kendall Green. | Roberts Dam. | Fresh Pond. | Harvard Obs. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. | K. G. | R. D. | F. P. | H. O. |
| 1 | | | | | | | | | | | | | .64 | | .42 | .. | | | | | | | .10 | | | | | | .16 | | .16 | T | .06 | 1.02 | .01 | .79 | | | | .53 | | | | | | | .17 | |
| 2 | | | | | .81 | | 1.04 | | | | .79 | | .16 | | .17 | .24 | | | | | .13 | .09 | .24 | .12 | | | | | | .15 | .03 | .11 | | | .28 | | | | | | | | | .20 | .19 | .11 | .17 |
| 3 | | | | | .20 | .97 | | 1.21 | 1.45 | .83 | .08 | .85 | .40 | .85 | .18 | .17 | | | .04 | | .17 | .30 | .42 | .28 | .24 | | .20 | .19 | .68 | | .60 | .09 | .21 | .47 | .03 | .24 | | | | | | .06 | | .33 | | .30 | .19 |
| 4 | T | | .34 | | | | | | | .07 | | | | .33 | | .04 | | | | .03 | .39 | .39 | | .45 | | .20 | | T | | .74 | | .54 | | | .01 | | | | .06 | | .08 | | .62 | .07 | | .35 | .11 | .13 |
| 5 | .35 | .30 | | .44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | T | | .68 | | | | .03 | .05 | .84 | .66 | .72 | 1.06 | .28 | .15 | .11 | .11 |
| 6 | | | .15 | | .84 | | .58 | .05 | | | | | | | | | | | | | | | | | .40 | | .02 | | | | | | | | | .67 | .05 | | | .02 | | .37 | | .16 | | | | .11 |
| 7 | .24 | .21 | .60 | .29 | .08 | .64 | | .25 | .32 | | .23 | | .61 | | | | | | | | | | | | | .13 | | | | | | | | | | | | | | | | | | | | .05 | | |
| 8 | | .22 | | .11 | | | | | | | | .27 | | | .64 | | | .12 | .03 | | | | | | .24 | | | | | | | | | | | | | | | | .06 | | .05 | .08 | | .08 |
| 9 | | | | | | | .04 | .01 | T | | | | | .68 | | .54 | | | | .04 | | | | | .21 | .20 | .33 | .18 | .47 | | .28 | | T | | | | | | | | .04 | | .01 | .06 | | | 1.14 | |
| 10 | | | | | | | .05 | | | | .14 | | | | .39 | | | | | | | | | | | .15 | | .23 | | .12 | | .19 | | | | | | | | | | | | 2.26 | 1.20 | .68 | 1.54 |
| 11 | | | | | .58 | | .03 | .05 | 1.71 | | 1.06 | .25 | | .31 | | .32 | | | | | .51 | | .52 | | | | | | | | | | | | 2.00 | | | | | | | | | .76 | | .18 |
| 12 | | | | | .03 | .15 | .75 | .03 | | 1.38 | | .91 | | | | | | | | | | .53 | .03 | .52 | | | | | | | | | 1.20 | 1.24 | .19 | 2.47 | | | | | | | | | | |
| 13 | | | | | 1.05 | 1.00 | .43 | 1.11 | | | | | | | | | | | | | | | T | .01 | | | | | T | | | | | | .14 | | | .06 | | | | | | | | |
| 14 | | | .01 | | .06 | .31 | .14 | .07 | | | .11 | | | | | | | | | | | | .40 | | .43 | | .31 | | | | | | | | | 1.80 | | 1.40 | .06 | | | | | | | | |
| 15 | .24 | | .85 | .01 | .67 | .15 | .35 | .20 | | .17 | | .12 | | | | | | | | | 1.10 | .40 | .60 | .72 | | .32 | | .15 | T | | .20 | | | | | .45 | 1.72 | | 1.29 | | | .07 | | | | 1.24 | T |
| 16 | .31 | .55 | .02 | .48 | | .29 | | .24 | | | | | | | | | | | | | | .66 | | .25 | | | | | .24 | .22 | | .15 | | | | | | | | .31 | | .34 | .13 | 1.72 | 1.41 | .19 | 1.27 |
| 17 | | | | | | | | | | | | | | | .38 | | | | | | | | | | .80 | | 1.20 | | | | | | | | | | | | | T | .33 | | .08 | | .21 | | T |
| 18 | | | | | .08 | | .70 | | | | | | 1.38 | 1.03 | .73 | .60 | | | | | | | | | | .74 | | 1.17 | | | | | | | | | | | | | | | | .14 | | .25 | |
| 19 | | | | | .89 | .82 | .21 | .71 | | | | | .06 | .22 | | .29 | | | | | | | .59 | | | | | | | | | | | | | | .03 | | .02 | | | | | | .05 | .24 | | .22 |
| 20 | | | | | .12 | .38 | | .27 | T | | | | | | | | | | | | .85 | .42 | .50 | .76 | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | T | | .02 | | | | | | | | .46 | | .82 | .39 | 1.64 | .26 | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | .13 | T | | | | | | | | .01 | | | .10 | | .69 | .52 | .14 | .48 | .44 | 1.05 | .63 | 1.05 | | | | | | | | | | | | | | | | | | | | | T |
| 23 | .32 | .20 | .25 | .14 | | | | | T | | .02 | | .61 | | .55 | .30 | | .13 | | .15 | .84 | .78 | .04. | 60 | .04 | | .04 | | | | | | | | | | | | | | | | | | | |
| 24 | .47 | .17 | 1.44 | .13 | | | | | T | | .01 | .05 | | .66 | | .30 | | | | | | | | | | .05 | .53 | T | | .10 | | | | | | | | | | | | | | | | |
| 25 | .12 | .60 | | .50 | | | | | T | | | .01 | | | | | | | | | | | .25 | | .91 | .49 | .62 | .59 | .34 | .47 | | .08 | .11 | | .85 | | | | .12 | | | .14 | | | | |
| 26 | .30 | .37 | .76 | | T | | | | | | | | | | | | | | | | .16 | .25 | | .25 | .33 | .70 | .31 | .25 | | | | | .88 | .96 | 1.40 | .81 | .27 | .27 | .15 | .20 | .10 | .08 | .01 | .13 | | | | |
| 27 | | | | .25 | | | | | | | | | | | | | | | | | .10 | | .10 | .09 | .41 | .45 | .42 | .34 | | | | | 1.06 | 1.21 | .09 | 1.48 | | | | .03 | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | T | | | | | .09 | | .04 | .36 | .48 | | | T | | | | | .08 | | .05 | | | | | | | .05 | | .25 | T |
| 29 | | | 1.82 | | | | | | T | | | | | | | | .08 | | | | | | | | | | | | .99 | | .18 | | | | | | | | | | .12 | | .12 | .01 | .21 | | .37 | T |
| 30 | .92 | .80 | .41 | .94 | .01 | | | | | | | | | | | | | .12 | .10 | | | | | | T | | .01 | | | .46 | | .08 | | | | | | | | | .14 | | .06 | 1.40 | .71 | .07 | .68 |
| 31 | | .06 | | T | | | | | | | | | | | | | | | | .10 | | | | | | | | | 1.04 | | .98 | | .24 | .29 | .57 | | | | | | | | | | | |
| | 3.27 | 3.48 | 6.78 | 3.29 | 5.42 | 4.71 | 4.32 | 4.20 | 3.48 | 2.45 | 2.46 | 2.47 | 3.86 | 4.08 | 3.56 | 2.80 | .77 | .89 | .77 | .80 | 5.51 | 5.35 | 6.06 | 5.40 | 4.13 | 3.91 | 4.23 | 3.10 | 3.92 | 2.16 | 2.53 | 1.24 | 3.76 | 5.27 | 6.11 | 6.65 | 2.60 | 1.99 | 1.84 | 2.18 | 1.49 | 1.58 | 2.15 | 1.76 | 6.69 | 5.30 | 5.04 | 4.68 |

# REPORT OF SUPERINTENDENT OF STREETS.

*To the Honorable the City Council: —*

GENTLEMEN, — In accordance with the requirements of the ordinance relating to streets, I have the honor to submit my third annual report for the year ending Nov. 30, 1892.

## Maintenance.

| | |
|---|---|
| The appropriation for "Street Department, Maintenance," including building, repairing and cleaning streets, and the collection of ashes, was | $121,013 37 |
| Amount expended | 120,584 30 |
| Balance unexpended | $429 07 |

The detailed account of expenditures of this department, as per Auditor's report, is as follows:

| | |
|---|---|
| For Salary of Superintendent, E. H. Reed | $1,949 96 |
| Clerk, George M. Clukas | 1,087 50 |
| Foreman, C. A. Brown | 1,099 00 |
| Foreman, J. A. Sheridan | 1,099 00 |
| Sub-foreman, H. C. Hitchcock | 341 87 |
| Sub-foreman, Eldorado Osborn | 545 00 |
| Sub-foreman, A. F. Miller | 271 25 |
| Labor, as per pay rolls | 59,806 76 |
| Teaming, other than done by the department | 14,679 99 |
| Advertising | 29 91 |
| Bookcase | 35 00 |
| Bricks | 97 20 |
| Brooms | 15 90 |
| Canvas cover | 33 63 |
| Carpentry | 75 15 |
| Carriage hire for Committee | 107 50 |
| Carriages and repairs | 477 43 |
| Car tickets, West End Street Railway Co. | 25 00 |
| Cash for sundries | 28 15 |
| Directories | 7 50 |
| Expressage | 2 00 |
| *Amount carried forward* | $81,813 70 |

| | | |
|---|---|---|
| *Amount brought forward* | | $81,813 70 |
| Fence (iron pipe) | | 96 00 |
| Fuel | | 1,176 41 |
| Gas | | 264 97 |
| Gas fixtures | | 8 01 |
| Hardware, tools and repairs | | 1,832 35 |
| Harnesses and repairs | | 621 17 |
| Horses | | 1,650 00 |
| Hay, grain and straw | | 9,217 00 |
| Horse-clipping | | 5 00 |
| Horse medicines, drugs, etc. | | 163 58 |
| Horse-shoeing | | 115 43 |
| Lumber and cement | | 577 30 |
| Lights and installing lamps | | 195 90 |
| Machine, engine and iron work | | 1,303 60 |
| Oatmeal | | 38 90 |
| Packing, belting and rubber goods | | 83 21 |
| Paint, oil, varnish, etc. | | 231 91 |
| Pipe and cement | | 76 65 |
| Plumbing | | 46 62 |
| Professional services | | 15 00 |
| Rent of wharf | | 275 00 |
| Stationery, printing and postage | | 165 41 |
| Stamps | | 12 50 |
| Stone, cracked | $11,930 16 | |
| Stone, granite | 9 00 | |
| Stone, field | 8,392 08 | |
| | | 20,331 24 |
| Street signs | | 43 63 |
| Sundry supplies | | 33 51 |
| Telephone, rent and tolls | | 72 30 |
| Typewriter | | 130 00 |
| Use of wagon | | 5 00 |
| Total | | $120,584 30 |

The following summary shows the manner in which the above expenditures have been applied:

| | |
|---|---|
| Grading streets | $33,279 55 |
| Patching streets | 11,891 38 |
| Cleaning streets | 12,701 89 |
| Collection of ashes | 15,564 50 |
| Horses, purchase and exchange | 1,650 00 |
| Maintenance of the department, including care and feed of horses, harness and wagon repairs, etc. | 14,478 09 |
| Salaries of foremen and sub-foremen | 3,355 12 |
| Stable repairs and fittings | 1,562 28 |
| *Amount carried forward* | $94,482 81 |

| | |
|---|---|
| *Amount brought forward* . . . . . | $94,482 81 |
| Superintendent's salary and office expenses, including carriage hire for Committee . . . . . | 3,567 67 |
| Tools, machines, hardware, etc. . . . . | 1,510 08 |
| Winter work, care of ice and snow, crushing stone, overhauling tools, carts, etc. . . . . | 21,023 74 |
| Total . . . . . | $120,584 30 |

By reference to the above schedule it is evident that while the appropriation for this department was over $120,000.00, the amount actually available for construction and repairs of streets is a trifle over one-third of said amount, and in the criticisms often heard on the large amount of money expended on our streets, no consideration is given to these facts. We have a large and expensive plant to maintain, and are obliged to collect the ashes and rubbish of the city at an annual expense of over $15,000.00, and instead of having $120,000.00, have less than $50,000.00 for actual street repairs. With this small appropriation we are expected to keep in proper condition about eighty miles of streets, the greater part of them low, with poor foundations, and with serious defects in their original construction. To obviate this misunderstanding on the part of the public, I would suggest that this appropriation be divided so that the expense of the actual repairs and construction of streets may be clearly defined.

Most of the wear and tear of our streets is due to heavy teaming through the city from the surrounding towns, this city being the main thoroughfare to Boston. The only way in which these thoroughfares can be kept in proper condition is to heavily macadamize or pave the principal streets. This means of course a larger expenditure of money, and I respectfully recommend that a very much larger appropriation be made for this department the coming year.

During the past year we have continued the use of stone dust, or screenings, for covering sidewalks instead of the inferior gravel formerly used for that purpose. This material possesses the qualities of binding well and of absorbing water without making the walk muddy, and wherever used it has given general satisfaction.

Our supply of street gravel having been entirely cut off by the action of the Water Board (to whom the gravel bank in Belmont belongs) prevents our further use of the gravel we have always depended upon, and will compel immediate action looking toward

the purchase of a gravel bank suitable for the purposes of this department. During the past season an advertisement was inserted in several newspapers published in the surrounding towns, asking for proposals for a suitable gravel bank, to be located on the line of some railroad within about twenty-five miles of the city. A number of answers were received, and in most cases the locality was visited, but no material of a satisfactory nature has yet been found. As before stated, this, the most imperative need of the department, must receive immediate consideration.

During the past year, $11,891.38 has been expended in patching and "minute repairs" on nearly all the streets in the city, and while this work is not entirely satisfactory, we shall be obliged to continue this policy until the appropriations can be made large enough to allow more grading to be done, and to reduce the amount of patching now necessary. The wisest policy, it seems to me, would be for the city to purchase a good stone ledge, easy of access to the city, on the line of some railroad, locate a crusher plant there, and furnish material for macadamizing streets. By this plan, which could be carried out by a reasonable expenditure, it would be possible to macadamize more streets every year, and prevent the necessity of so frequent grading and patching.

The following streets have been accepted during the year:

| | |
|---|---|
| Erie Street, from Pearl Street to Brookline Street, | May 18, 1892. |
| First Street, from Main Street to the bridge, | January 10, 1892. |
| Fresh Pond Lane, from Huron Street to Fitchburg R. R., | December 2, 1891. |
| Hubbard Ave., from Raymond Street, easterly, | October 27, 1892. |
| Hews St., from Western Ave. to Griggs St., | June 10, 1892. |
| Huron St., from Fitchburg R. R. to Concord Avenue, | December, 1891, June, 1892. |
| Locke Street, from Meacham Street, northerly | April 27, 1892. |
| Larch Street, from Fresh Pond Lane, easterly | December 2, 1891. |
| Parker Street, from Buckingham Street to Concord Avenue, | December 23, 1891. |
| Portsmouth Street, from Hampshire Street to Webster Avenue, | October 27, 1892. |
| Prescott St., from Cambridge St. to Broadway | December 2, 1891. |
| State Street, from Osborn Street, westerly, | December 30, 1891. |
| Traill St., from Elmwood Ave. to Mt. Auburn Street, | September 14, 1892. |
| Whitney Avenue, from Chestnut Street to Putnam Avenue, | December 2, 1891. |
| Woodbridge St., from North Ave. to Locke St. | April 27, 1892. |

The following streets have been graded during the past year, at an expense of $33,279.55.

| | |
|---|---|
| Appleton Street, from Huron Street to Brattle Street | $206 75 |
| Brookline Street, from Main Street to Auburn Street | 254 00 |
| Broadway, from Ellery Street to Trowbridge Street | 122 75 |
| Broadway, from Hampshire Street to Antrim Street | 1,632 25 |
| Cambridge Street, from Kirkland Street to North Avenue | 147 00 |
| Charles Street, from Fifth Street to Sixth Street | 507 25 |
| Concord Avenue, from Craigie Street to Bond Street | 548 25 |
| Concord Avenue, from Bond Street to Sparks Street | 2,039 50 |
| Cushing Street, from Belmont Street to Woodlawn Avenue | 552 50 |
| Davis Street, from Harvard Street to Broadway | 95 25 |
| Donnell Street, from Concord Avenue to Garden Street | 671 00 |
| Dublin Street, from Spruce Street to Walden Street | 4,729 00 |
| Eighth Street, from Otis Street to Thorndike Street | 105 75 |
| Ellery Street, from Broadway to Cambridge Street | 127 00 |
| Franklin Street, from Pearl Street to Brookline Street | 134 50 |
| Franklin Street, from Hancock Street to Bay Street | 167 50 |
| Garden Street, from Mason Street to Concord Avenue | 481 50 |
| Garden Street, from Dublin Street to Walden Street | 599 50 |
| Hamilton Street, from Magazine Street to Brookline Street | 285 50 |
| Hampshire Street, from Cambridge Street to Somerville line | 236 25 |
| Hancock Street, from Green Street to Franklin Street | 78 00 |
| Hancock Street, from Main Street to Green Street | 42 75 |
| Highland Avenue, from Greenough Avenue to Broadway | 974 75 |
| Hubbard Avenue, from Walden Street to Raymond Street | 439 50 |
| James Street, from Mason Street to Brattle Street | 158 75 |
| Lambert Avenue, from North Avenue to Mt. Pleasant Street | 112 00 |
| Lambert Street, from Cambridge Street to Gore Street | 244 00 |
| Norfolk Street, from Main Street to Harvard Street | 791 00 |
| North Avenue (west side) from Creighton Street to Dover Street | 1,187 25 |
| Passageway, rear of new High School | 421 50 |
| Pearl Street, from Main Street to Putnam Avenue | 1,655 50 |
| Pleasant Street, from Main Street to Putnam Avenue | 2,147 50 |
| Plymouth Street, from Webster Avenue to Hampshire Street | 146 00 |
| Sixth Street, from Broadway to the bridge | 605 75 |
| Sixth Street, from Bent Street to the bridge | 1,924 25 |
| Sixth Street, from Cambridge Street to Gore Street | 190 50 |
| Spring Street, from Second Street to Third Street | 558 30 |
| Spruce Street, from Rice Street to Clifton Street | 1,187 75 |
| Spruce Street, from North Avenue to Rice Street | 2,445 00 |
| State Street, from Windsor Street to Osborn Street | 560 75 |
| Trowbridge Street, from Cambridge Street to Broadway | 287 00 |
| Vine Street, from Fourth Street to Fifth Street | 111 75 |
| Walden Street, from Dublin Street to the bridge | 293 50 |
| Walden Street, from Garden Street to Concord Avenue | 678 00 |
| *Amount carried forward* | $30,884 05 |

| | |
|---|---|
| *Amount brought forward* | $30,884 05 |
| Webster Avenue, from Somerville line to Hampshire Street | 2,151 50 |
| Wicklow Street, from Dublin Street to Garden Street | 77 50 |
| Willow Street, from Somerville line to Cambridge Street | 166 50 |
| | $33,279 55 |

**Construction and Maintenance, Sundry Streets (Belmont District).**

| | |
|---|---|
| Appropriation | $10,000 00 |

EXPENDED.

| | | |
|---|---|---|
| For labor, as per pay rolls | $4,830 50 | |
| Bricks | 13 50 | |
| Catch basin stone | 24 11 | |
| Grates | 17 00 | |
| Hardware | 5 90 | |
| Hose coupling, etc. | 13 75 | |
| Lumber | 134 00 | |
| Stone wall | 133 50 | |
| Teaming | 4,682 50 | |
| Water supply | 30 25 | |
| | | 9,885 01 |
| Balance | | $114 99 |

The above amount has been expended for labor and materials used in grading the streets around Fresh Pond, as required by the Act of the Legislature — approved April 28th, 1891.

A part of the work was done last year, at an expense of $12,400, and the amount expended this year covers the cost of macadamizing the remaining streets mentioned in the Act. The work has been done in a thorough manner, and the streets in that district are now in excellent condition. Following is a list of the streets and the cost of macadamizing each.

| | |
|---|---|
| Adams and Grove Streets, from Concord Ave. to Cushing Street | $6,581 50 |
| Concord Avenue, from Adams Street to Lake View Avenue | 1,046 00 |
| Cushing Street, from Grove Street to Belmont Street | 1,243 49 |
| Holworthy Street, entire length | 510 00 |
| Locust Street, entire length | 134 00 |
| Wellington Street, entire length | 369 52 |
| Total | $9,884 51 |

### Front Street, Filling and Grading.

| | | |
|---|---|---|
| Appropriation (balance from last year) | | $9,140 65 |
| EXPENDED. | | |
| For labor, as per pay rolls | $1,077 06 | |
| Execution land damages | 287 95 | |
| Edgestones | 1,084 86 | |
| Poles | 30 00 | |
| Trees | 125 00 | |
| | | 2,604 87 |
| Balance | | $6,535 78 |

The above amount has been expended for setting edgestones and building sidewalks on both sides of the street, from the Boston & Albany railroad crossing to the Harvard Bridge, completing the entire street. A loam trench has been put in and seeded on both sides of the entire length of the street. One hundred and forty elm and maple-trees have been planted along the edge of the sidewalks, and a low iron wire guard fence has been placed there for their protection.

### Paving Cambridge Street.

| | | |
|---|---|---|
| Appropriation | | $12,000 00 |
| EXPENDED. | | |
| For labor, as per pay rolls | $4,011 72 | |
| Paving blocks | 5,175 94 | |
| Gravel | 412 45 | |
| Teaming | 920 00 | |
| | | 10,520 11 |
| Balance | | $1,479 89 |

This amount has been expended as shown above, in paving Cambridge Street, from the west side of Columbia Street to within about one hundred feet of Prospect Street. It was the original intention of the department to pave as far as the west side of Prospect Street, but owing to delays on the part of the West End Railway Company, in laying their frogs and switches at that point, we were compelled to stop at the point above named. There is a sufficient balance from the appropriation to complete this work early in the coming year.

I trust that provision may also be made for the further extension of the paving of this street to Inman Square.

### Paving Central Square.

| | | |
|---|---|---|
| Appropriation | | $6,000 00 |
| EXPENDED. | | |
| For labor, as per pay rolls | $1,180 96 | |
| Paving blocks | 3,403 56 | |
| | | 4,584 52 |
| Balance | | $1,415 48 |

The above amount has been expended in paving a part of Central Square, which was not entirely completed on account of the sudden frost while the work was in progress; the balance unexpended will be sufficient to complete the work as originally intended, and will be finished early next season. I would recommend that the paving be extended from Central Square up Main Street to Bigelow Street, and continue Western Avenue as far as possible next year.

### Paving, Edgestones and Sidewalks.

| | | |
|---|---|---|
| Appropriation | | $80,000 00 |
| EXPENDED. | | |
| For labor, as per pay rolls | $28,223 22 | |
| Advertising | 36 90 | |
| Bricks | 13,804 00 | |
| Cement | 46 50 | |
| Cutting paving blocks | 1,358 28 | |
| Gravel and sand | 1,997 55 | |
| Hardware and tools | 322 22 | |
| Lumber | 120 53 | |
| Oil | 89 12 | |
| Rebate on assessments | 24 16 | |
| Stone | 29,376 46 | |
| Sundries | 14 90 | |
| Teaming | 4,036 25 | |
| Towing | 225 00 | |
| | | 79,675 09 |
| Balance | | $324 91 |

When the annual budget was made up this year, the usual amount of $30,000.00 was appropriated for edgestones and sidewalks, and later in the year an appropriation of $50,000.00 for new edgestones and brick sidewalks was added, the latter amount being raised by a loan.

We have therefore been able to grant nearly all petitions for edgestones and sidewalks which have been received this year, and as will be seen by examination of the following table, a large amount of new work has been done.

| Description of Work. | 1890. | | 1891. | | 1892. | |
|---|---|---|---|---|---|---|
| | Yards | Feet. | Yards. | Feet. | Yards. | Feet. |
| New straight edgestones set | ..... | 12,751 | ..... | 8,675 | ..... | 25,055 |
| New circle edgestones set | ..... | 460 | ..... | 281 | ..... | 636 |
| Old straight edgestones re-set | ..... | 8,770 | ..... | 14,684 | ..... | 18,987 |
| Old circle edgestones re-set | ..... | 23 | ..... | 203 | ..... | 97 |
| New brick sidewalk paved | 4,081 | ..... | 4,173 | ..... | 15,097 | ..... |
| Old brick sidewalk re-paved | 5,412 | ..... | 16,630 | ..... | 17,511 | ..... |
| Old crossings re-paved | 4,496 | ..... | 3,780 | ..... | 2,413 | ..... |
| New North River flagstone laid | ..... | 1,246 | ..... | 1,858 | ..... | 4,467 |
| Granite block paving | 2,008 | ..... | 2,744 | ..... | 11,829 | ..... |
| Gutter paved | 8,988 | ..... | 12,838 | ..... | 19,145 | ..... |

The suggestion made last year regarding the need of more and better street crossings has been emphasized by the unusual number of petitions for crossings received during this year, and while as much of this work has been done as possible, there still remain on the files of the committee twenty-one petitions for crossings in different parts of the city that we have been unable to act favorably on.

Near the close of the season, orders were placed to advantage for furnishing bricks, edgestones and other materials, so that we now have on hand a sufficient supply of material to begin the new work as soon as the ground opens in the spring. This provision will allow us to complete all the petitions for edgestones and brick sidewalks now on the files, and will enable us to transmit the assessments to the Board of Aldermen, so that the revenue may be collected at once.

## Street Watering.

| | | |
|---|---|---|
| Appropriation | | $21,000 00 |
| EXPENDED. | | |
| For labor, as per pay rolls | $1,750 38 | |
| Advertising | 14 65 | |
| Carpentry | 7 48 | |
| Collecting | 31 00 | |
| Freight | 6 36 | |
| Hardware, tools and supplies | 77 97 | |
| Hose | 44 75 | |
| Leather | 10 36 | |
| Lumber | 54 24 | |
| Lettering carts | 42 00 | |
| Paints, oils, varnish, etc. | 352 21 | |
| Repairs on carts | 196 72 | |
| Stationery and printing | 31 11 | |
| Sprinkling attachments | 500 00 | |
| Sprinkling streets | 17,813 25 | |
| | | $20,932 48 |
| Balance | | $67 52 |

This amount was expended in repairs of carts, incidental expenses and the payment of contractors for sprinkling the streets. The streets have been watered every day this year when necessary, including Sunday mornings, from April 1 to December 1. The present system of watering wholly by contract is not entirely satisfactory, and better service could be given if the principal streets were watered by the city teams, leaving only a part of the work to be done by contract. This work has been in charge of a foreman, who has given his entire time to it, and under his supervision the service has been very much improved. Five more of the Studebaker sprinkling attachments have been purchased to replace worn-out sprinklers on the old carts, the labor of this and other repairs on the same being done by our regular men at the city yard.

By an Act of the Legislature passed last year the city was authorized to appropriate money for the purpose of watering all or part of the streets, and I would recommend that this work, or a portion of it, be provided for in the annual budget and relieve the citizens from the trouble and annoyance of collecting the money from door to door.

As a measure of economy and to preserve the surface of the streets, Front Street, its entire length, and Concord Avenue, from

Walden Street to the Belmont line, were watered this year, the entire expense being paid by the city, no collections being made on these thoroughfares.

### Bridges, Construction.

| | | |
|---|---|---|
| Appropriation | | $11,100 00 |
| EXPENDED. | | |
| For advertising | $39 78 | |
| Bent plate | 5 58 | |
| Walden Street Bridge | 2,006 25 | |
| Western Avenue Bridge | 4,955 00 | |
| Inspection at Walden Street. | 26 67 | |
| Lumber | 18 14 | |
| Labor, as per pay rolls | 94 31 | |
| Printing | 25 00 | |
| Rebuilding abutments on Walden Street | 2,410 17 | |
| Stone | 76 78 | |
| Travelling expenses | 42 80 | |
| | | $9,700 48 |
| Balance | | $1,399 52 |

The large balance from this appropriation is accounted for by the fact that the final settlement has not yet been made for rebuilding the Walden Street Bridge.

### Walden Street Bridge.

As reported last year this bridge was found to be defective and was temporarily strengthened by an additional truss. The City Solicitor having failed to find sufficient grounds to warrant the city to compel the Fitchburg Railroad Company to rebuild the bridge, it was decided to rebuild at the expense of the city. Plans and specifications were accordingly prepared for a steel and iron plate girder bridge, and on May 10, 1892, the contract for building the same was awarded to the King Bridge Company, of Cleveland, Ohio, for the sum of $3,300.00. Owing to delays in getting material, the Bridge Company failed to have the bridge completed at the time specified, viz.: Aug. 1, 1892, and the time was extended to Sept. 15, 1892. It was actually completed about the middle of October. The bridge is constructed largely of steel. The two main girders are 63 feet long and 6 feet high. There is a roadway 28 feet wide between the centre of main girders, and two sidewalks 7 feet wide, making the total width of bridge between railings 42

feet, a 12-inch water pipe being carried beneath the floor of the westerly sidewalk through the sidewalk brackets. No settlement has yet been made with the Bridge Company. The contract for rebuilding such parts of the old abutments as were necessary, and furnishing the new bridge seats and parapet stones, was awarded May 25, 1892, to John Moyle, of Sharon. The amount paid under this contract was $2,410.17.

### Western Avenue Bridge.

As noted in the last annual report, this bridge had become very much decayed, and was in an unsafe condition. Plans were accordingly prepared for rebuilding the part of the bridge between the abutment and the new work at the draw put in in 1891. A contract was made with William L. Miller, Sept. 29, 1892, who performed the work in a very prompt and satisfactory manner, the bridge being closed to travel twenty-eight days. This is now the most heavily timbered and substantial wooden bridge in the city. The total cost of the work, including inspection, etc., was $5,049.32.

### Bridges, Maintenance.

| | | |
|---|---|---|
| Appropriation | | $3,614 62 |
| EXPENDED. | | |
| For salaries | $2,358 43 | |
| Advertising | 7 00 | |
| Cordage | 4 78 | |
| Displacement of tide-water | 10 50 | |
| Hardware | 12 64 | |
| Iron work | 1 50 | |
| Lumber | 362 87 | |
| Paint | 10 40 | |
| Printing | 45 75 | |
| Replanking Western Avenue Bridge | 493 55 | |
| Widening draw-ways | 110 67 | |
| | | 3,418 09 |
| Balance | | $196 53 |

The above amount has been expended in payment of salaries of drawtenders and the care and repairs of the several bridges in charge of the department; a detailed report of each bridge is as follows:

### Boylston Street Bridge.

The part of this bridge between the new work near the draw and the abutment has been replanked the past season. The work was done by T. E. Ruggles & Co., at a cost of $493.55. The bridge is now in good condition.

### Brookline Street Bridge.

This bridge is now in fair condition, excepting the spruce sheathing in the roadway, which should be renewed, and a contract has been made with William L. Miller for the work, which will be done at once.

### River Street Bridge.

This bridge is now in good condition, except that the spruce sheathing in the roadway should be renewed at once.

### Sixth Street Bridge.

The spruce sheathing should be renewed at once during the coming year.

### Third Street Bridge.

This bridge is now in fair condition, the spruce sheathing in the roadway having been recently renewed, the work being done by the regular men in the employ of the department.

### Shade-Trees and Public Grounds.

| | | |
|---|---|---|
| Appropriation | | $6,895 35 |
| EXPENDED. | | |
| For salaries, labor | $5,531 43 | |
| Band stand | 75 00 | |
| Carpentry | 7 48 | |
| Cash paid for sundries | 11 50 | |
| Lumber | 73 16 | |
| Manure | 26 00 | |
| Paints, oils, etc. | 6 46 | |
| Plants and seeds | 169 95 | |
| Repairing flagstaffs | 219 43 | |
| Settees | 488 00 | |
| Tools, hardware, etc. | 147 04 | |
| Teaming | 118 00 | |
| | | 6,873 45 |
| Balance | | $21 90 |

This department is under the charge of a special foreman, and has the care of all the commons and squares, the grounds around the Public Library, the City Hall and the new High School, and all the trees in the streets of the city.

During the past year one hundred new lawn settees have been purchased and placed in the several commons in different sections of the city. All the flagstaffs have been repainted and repaired, and the plank walks have been renewed and rebuilt.

The work in this department is constantly increasing, and liberal appropriations should be made to allow for the care of the trees and the public grounds throughout the city.

### First Street Extension.

| | | |
|---|---|---|
| Appropriation | | $17,000 00 |
| Revenue | | 2,500 00 |
| Total appropriation | | $19,500 00 |
| EXPENDED. | | |
| For advertising | $5 00 | |
| Contract for building bridge | 6,200 00 | |
| Driving and fitting dolphins | 180 00 | |
| Hardware | 2 20 | |
| Labor, as per pay rolls | 709 30 | |
| Inspection | 280 00 | |
| Land and damage | 11,276 25 | |
| Lumber | 141 44 | |
| Stone | 359 00 | |
| | | 19,153 19 |
| Balance | | $346 81 |

This street has been heavily macadamized from Main Street to the bridge, edgestones and brick sidewalks have been laid on both sides of the street, and a contract for building the bridge over Broad Canal was made January 14, with Messrs. Leavitt, Dailey & Crockett, of Boston, for the sum of $6,200.00, and completed by them in June. Two dolphins, or clusters of piles, were afterward driven by Haskins & Rundle at a cost of $180.00. The total cost of the bridge was $6,692.44. The dredging made necessary by changing the channel to conform to the draw of the bridge was done by agreement by Henry M. Whitney, a large owner of land near the bridge. The bridge is made of wood, built in a very thorough and substantial manner, having a width of 45 feet and an opening of the draw-way of 36 feet.

### Huron Street Extension.

| | | |
|---|---|---|
| Appropriation | | $16,000 00 |
| EXPENDED. | | |
| For labor | $1,540 00 | |
| Stone | 1,218 99 | |
| Tools | 21 94 | |
| Teaming | 1,683 75 | |
| | | 4,464 68 |
| Balance | | $11,535 32 |

The above appropriation includes the payment of damages for land taken and the cost of widening and macadamizing Huron Street, seventy feet wide, from Sparks Street to the westerly line of the estate of the heirs of Charles C. Little.

The street has been widened and graded, and the work of macadamizing begun; owing to delays in agreements as to grades, lines, etc., it was impossible to complete the work this year, and this will be one of the first undertakings of the department in the early spring.

### North Avenue Widening.

| | |
|---|---|
| Appropriation | $4,931 56 |
| Expended | 1,101 00 |
| Balance | $3,830 56 |

This appropriation was made for the expense of land taken and the cost of the work necessary in widening North Avenue on the east side, from Alewife Brook to a point near Tannery Street, so as to conform to the line of the west side of the street. Owing to delays in the settlement of land claims, the work remains uncompleted, and the balance will be carried forward the coming year, for the purpose of completing the work.

### In General.

The office work of the department has been systematized, and accurate and detailed accounts are kept of all work done on the streets. Information can be obtained at the office of the cost of construction, paving, or the repairs of any given street, and the number of openings made in it during the year. Permits to open, obstruct or encumber streets, formerly granted under petition to the

Board of Aldermen, are now granted from this office, thus saving the delay to petitioners who were obliged to wait for the regular meetings of the Board. That this has been a great convenience is shown by the fact that since the plan has been in operation — a period of about two and a half years — over 2,600 permits have been granted. All the supplies of the department are purchased upon requisitions from the office, and duplicate invoices are kept for reference. A record of each horse is kept from the time of purchase to his final disposal. All accidents coming under the observation of the employés of the department are reported to the office, where full particulars as possible, including names of witnesses, etc., are kept on file.

The schedules of sidewalks laid are now reported from this office to the Board of Aldermen, and assessments for the same are levied on the abutters as soon as the work is completed. The daily reports of defects in streets and sidewalks from the police are promptly attended to by the foremen, and a return is made by them on blank forms of the time they receive the reports and complete the work.

The city has been divided into two districts, all the territory east of Dana Street, comprising District No. 1, being in charge of Foreman J. A. Sheridan, and all west of Dana Street, in charge of Foreman C. A. Brown, being designated as District No. 2.

Two years' experience of this district system has shown a great improvement over the old system ; each foreman being held responsible for the condition of the streets in his district, and repairs are promptly and thoroughly made under his personal supervision.

One of the chief causes of the wear of our streets is a lack of a sufficient number of catch basins to carry off surface water, and I would recommend that as many as possible be put in next year.

## Schedule of Property in Charge of this Department.

REAL ESTATE.

| | | |
|---|---|---|
| City Stables, Hampshire Street: | | |
| 72,661 sq. feet of land, Assessor's valuation | $30,000 00 | |
| Stables, sheds and scales | 16,000 00 | |
| Old Police Station | 1,000 00 | |
| | | $47,000 00 |
| Yard and pound, east side of Norfolk Street, | | |
| 39,600 sq. feet of land, Assessor's valuation | | 12,000 00 |
| City wharf, Main, near Sixth Streets: | | |
| 9,400 sq. feet of land, Assessor's valuation | $7,300 00 | |
| 162,000 sq. feet of flats, Assessor's valuation | 7,600 00 | |
| | | 14,900 00 |
| Mill Pond Property, | | |
| 305,690 sq. feet of land, Assessor's valuation | | 46,000 00 |
| Total real estate | | $119,900 00 |

PERSONAL ESTATE.

| | | |
|---|---|---|
| 43 horses | $10,750 00 | |
| 41 watering carts | 12,975 00 | |
| 1 engine and stone crusher | 7,000 00 | |
| 2 steam road rollers | 8,000 00 | |
| 4 horse rollers | 1,000 00 | |
| 4 Champion road machines | 1,000 00 | |
| 32 carts, twenty-one single, eleven double | 4,200 00 | |
| 42 sets of harness | 900 00 | |
| 3 wagons and five buggies | 400 00 | |
| 17 sleds, twelve snow-ploughs and one sleigh | 1,875 00 | |
| 1 hay rack | 100 00 | |
| 1 caravan | 150 00 | |
| 1 lawn hand cart | 80 00 | |
| 6 lawn mowers | 140 00 | |
| 3 pungs | 75 00 | |
| 4 street sweepers | 1,090 00 | |
| Garden hose | 125 00 | |
| Tools and stable furniture | 1,500 00 | |
| 2,537 feet of straight edgestone | 1,268 50 | |
| 337 feet of circle edgestone | 252 75 | |
| 447.4 feet of North River flagging stone | 447 40 | |
| 3,742 tons of gutter stone | 6,361 40 | |
| 650 yards of paving gravel | 650 00 | |
| 100,000 granite paving blocks | 3,785 00 | |
| 145,000 granite paving blocks (seconds) | 2,900 00 | |
| 260,000 bricks | 3,380 00 | |
| 320 yards of stone dust | 320 00 | |
| 270 yards of cracked stone | 445 50 | |
| | | 71,170 55 |
| Total property in charge of the department | | $191,070 55 |

In conclusion I desire to express my thanks to His Honor, the Mayor, and to the members of the Joint and Standing Committees for their generous coöperation and assistance during the past year, and to the members of the City Council for their encouragement and approval. My acknowledgments are extended to the heads of the different departments for their courtesy and consideration pertaining to matters in the department; also to George M. Clukas, clerk, and to foremen John A. Sheridan and Charles A. Brown, for their prompt, efficient and cheerful compliance with department orders.

Respectfully submitted,

E. H. REED,

*Superintendent of Streets.*

# REPORT OF THE COMMISSIONER ON HARVARD, WEST BOSTON, CANAL OR CRAIGIE'S, AND PRISON POINT BRIDGES.

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*To the Honorable the City Council of the City of Cambridge:* —

The Commissioner for Harvard, West Boston, Craigie's, and Prison Point Bridges submits for himself and associate the twenty-second annual report of the matters pertaining to West Boston and Craigie's Bridges, and the sixteenth annual report on Prison Point Bridge, and the first annual report on Harvard Bridge.

### Harvard Bridge.

The roadway of this bridge had become so worn, it was deemed best to replank it.

The work was done very quickly, and without any interruption to travel. It will be necessary to replank it every year.

### West Boston Bridge.

The repaving of the roadway of West Boston Bridge from the draw to the Boston abutment alluded to as necessary in the last report, has been done, and the bulkhead next to the Charles River embankment has been rebuilt and a new brick sidewalk laid.

The up-stream end of the draw pier has been strengthened by driving new piles and new planking. The fence, 4,329 feet in length, and the draw have been painted with two coats of white lead and linseed oil paint.

The plank sides of the water-way and the surface of the draw pier, are in bad condition and will have to be repaired next year.

This bridge is in fairly good condition, and will not require any more than the ordinary repairs for 1893, with the exception noted above.

### Canal or Craigie Bridge.

The roadway on both sides of the draw has been repaired, and the draw has been painted. The engine house roof has been tinned and painted, the chain to move the draw repaired, the machinery in the engine house, where necessary, has been made good. The fender on the up-stream side is in bad condition, and will have to be replaced by a new one. The sides of the water-way need new planking. New tracks have been laid in anticipation of running electric cars over this bridge. Before they are allowed to run over the draw, it should be carefully examined and repaired. It has been in use for eighteen years, and is very old for a wooden draw, and the upper chords of the trusses, the angle blocks and the samson posts should receive special attention.

### Prison Point Bridge.

The draw has been planked, the machinery to raise the draw repaired, and the draw arms and fence painted.

### In General.

The usual statement is appended of the number of draw-openings and the number of vessels which passed through.

The amount of revenue received for dockage, rent, etc., during the year has been $470.44.

Respectfully submitted,

WILLIAM J. MARVIN,

*Bridge Commissioner for Cambridge and Harbor Master on Charles and Miller's Rivers and Broad Canal.*

December 14, 1892.

Number of times the draws in Canal, Harvard, Prison Point and West Boston Bridges have been opened, and the number of vessels which have passed through during the year ending Nov. 30, 1892 :

| Date. Dec. 1, 1891, to Nov. 30, 1892. | Canal or Craigie's. | | Harvard. | | Prison Pt. | | West Boston. | |
|---|---|---|---|---|---|---|---|---|
| | Number of Draw Openings. | Number of Vessels Passed Through. | Number of Draw Openings. | Number of Vessels Passed Through. | Number of Draw Openings. | Number of Vessels Passed Through. | Number of Draw Openings. | Number of Vessels Passed Through. |
| December, 1891.... | 298 | 315 | 160 | 203 | 64 | 297 | 107 | 193 |
| January, 1892.... | 131 | 111 | 34 | 44 | 57 | 238 | 40 | 60 |
| February, " .... | 99 | 104 | 26 | 30 | 24 | 42 | 33 | 44 |
| March, " .... | 154 | 163 | 30 | 35 | 16 | 19 | 39 | 51 |
| April, " .... | 348 | 370 | 120 | 160 | 19 | 24 | 145 | 235 |
| May, " .... | 372 | 411 | 131 | 196 | 38 | 53 | 178 | 313 |
| June, " .... | 490 | 505 | 135 | 206 | 44 | 64 | 235 | 635 |
| July, " .... | 523 | 556 | 215 | 323 | 23 | 26 | 251 | 421 |
| August, " .... | 347 | 360 | 266 | 357 | 79 | 89 | 223 | 418 |
| September, " .... | 373 | 375 | 196 | 288 | 124 | 130 | 194 | 319 |
| October, " .... | 346 | 352 | 106 | 161 | 79 | 94 | 179 | 259 |
| November, " .... | 259 | 263 | 117 | 175 | 31 | 36 | 155 | 226 |
| Totals ..... | 3,740 | 3,885 | 1,536 | 2,178 | 598 | 1,112 | 1,779 | 3,174 |

**Statement of Traffic over Bridges.**

| Date, 1892. | Bridge. | Foot Passengers. | Teams. | Cars. | Car Passengers. |
|---|---|---|---|---|---|
| Sept. 17, | Canal ..... | 6,927 | 4,552 | 493 | 11,221 |
| 6 A. M. | Harvard .... | 1,487 | 1,576 | 146 | 5,355 |
| to | Prison Point | 1,735 | 2,104 | ..... | ..... |
| 7 P. M. | West Boston | 3,584 | 2,953 | 1,059 | 28,592 |
| | Totals ... | 13,733 | 11,185 | 1,698 | 45,168 |

In connection with this report, I append a few facts concerning the bridges :

The proprietors of West Boston Bridge were incorporated by

the Legislature of 1792, and the act was approved by John Hancock, then Governor, March 9th of that year.

By this act the proprietors were empowered to build a bridge and causeway from the westerly part of Boston, near the Pest House, so called, to Pelham's Island, in Cambridge; and were also required to make and maintain a good road from Pelham's Island aforesaid to the Cambridge road; the bridge to be not less than 40 feet wide; to have a footway on each side, railings on the outside of the bridge, and also railings between the footways and carriage-way; and to be lighted with lamps, the same distance apart, as provided for Charles River Bridge, to be kept burning till midnight. A draw to be built with a clear opening of thirty feet for the passage of vessels; the whole to be kept in good repair, and in forty years to be surrendered to the Commonwealth in like good repair. To pay to Harvard College £300 per annum, for the purpose of defraying the expenses of tuition of indigent scholars; to collect tolls for forty years at the rate of two-thirds of a penny for a foot passenger, two and two-thirds of a penny for one person and horse, and eight pence for a horse and chaise, chair, or sulky; coaches, phaetons, and curricles, one shilling each, etc.

In June of the same year, the charter was continued for seventy years, and the annual payment to Harvard College reduced to £200, and to continue for seventy years.

Work on the causeway was commenced July 15th, 1792; work on wooden bridge was commenced April 6th, 1793, and the bridge was opened for travel Nov. 23d, 1793.

The bridge and road controlled by the corporation extended from about the corner of South Russell Street, in Boston, to the corner of Main and Front Streets, in Cambridge, where the Universalist Church formerly stood. The wooden bridge was supported by 180 pile-piers, $19\frac{1}{3}$ feet apart, making 3,483 feet in length; bridge over the cove 275 feet long, causeway 3,344 feet long, and "abutment" on Boston side $87\frac{1}{2}$ feet, making a total length of structure of $7,189\frac{1}{2}$ feet. The causeway had a retaining wall on either side, with capstone and rail, and a canal was dug thirty feet wide on each side in Cambridge, and on the north side in Boston.

The wooden structure was a plank bridge on pine piles, which were soon destroyed by worms, and were replaced by oak as fast as was "consistent with economy and prudence."

The first cost of bridge and causeway was about £23,000.

The woodwork of the bridge was built in seven and one-half months, and, considering that all piles were driven by hand power, the progress made was very creditable to the builders. A Mr. Whitney was the principal contractor, and the superintendents on the part of the proprietors were Mungo Mackey and Henry Prentiss.

The "Chronicle" newspaper of Nov. 27, 1793, has this notice:

"The West Boston Bridge was opened on Saturday last for passengers. This bridge, for length, elegance, and grandeur, is not exceeded by any in the United States, if in any part of the world."

The "Columbian Centinel" of the same day, says:

"The bridge at West Boston was opened for passengers, etc., on Saturday last. The elegance of the workmanship, and the magnitude of the undertaking, are perhaps unequalled in the history of enterprises. We hope the proprietors will not suffer pecuniary loss from their public spirit. They have a claim on the liberality and patronage of the government, and to these claims, government will not be inattentive."

An act, approved Feb. 26, 1808, provides that "West Boston Bridge may collect tolls for seventy years, and shall continue to pay the annuity of $666.66 to Harvard College for the same time."

The Legislature of 1824 granted the West Boston Bridge Corporation the privilege of building a turnpike from Cambridge to Watertown, crossing the Charles River by a bridge to Brighton, and again from Brighton to Watertown, and of collecting tolls on the same. This was built at a cost of about $35,000, $5,000 of which was contributed by persons in Cambridgeport. It was an act of self-defence, as the Mill Dam Corporation had succeeded in securing a right to build a turnpike to Watertown, in opposition to the wishes and interests of the West Boston Bridge Corporation, thereby securing a shorter road to Boston than any existing by way of West Boston Bridge. By building a turnpike also, they succeeded in dividing the travel and tolls with the Mill Dam Corporation.

As early as 1828, the Legislature considered the subject of buying and freeing all the bridges over Charles River, but no definite action was taken until 1836, when the Hancock Free Bridge Company was incorporated with power to build a new bridge to Cambridge, and also liberty to buy West Boston Bridge, if they could; in which case it was to become free; but if they bought West Boston Bridge, then the authority to construct a new one was recalled.

This scheme, however, fell through; but ten years later, in 1846, it was revived, and a new corporation of the same name chartered, with the same power to build a bridge, and also to buy West Boston and Canal Bridges at a valuation by three disinterested men, and power to collect tolls until the members of the corporation were repaid their capital with six per cent. interest, and a surplus fund of $100,000 had accumulated. If West Boston Bridge only was bought, $75,000; if Canal Bridge only, $60,000; if both were bought, $130,000; the funds and bridges were to be turned over to the Commonwealth.

This arrangement went into operation, $75,000 being paid for West Boston, and $60,000 for Canal Bridge; and for twelve years the bridges were in the hands of the Hancock Free Bridge Corporation, working out their own freedom.

In 1854 West Boston Bridge was entirely rebuilt, the old bridge all taken away, 740 feet on the Cambridge end filled and made solid, and a short length at the Boston end filled, leaving the abutments where they now are. The wooden bridge was built wholly new, 50 feet wide, a new draw built in its present position, and the bridge left in its present form.

The Legislature of 1857 authorized the transfer of the bridges to Cambridge whenever the fund should amount to $100,000; the city of Cambridge, in consideration of the fund, agreeing to maintain them free public avenues forever. The Bridge Corporation to pay Brighton $6,500, and Brighton to support the bridges in that town on the Watertown turnpike; to pay Watertown $5,000, and Watertown to support the bridge on the turnpike within its limits. This arrangement was carried out, and on Feb. 1, 1858, West Boston and Canal Bridges were formally declared free public avenues. The occasion was celebrated by the government and citizens of Cambridge by a salute procession over the bridges, decorations, and general public rejoicing.

Canal or Craigie's Bridge was incorporated by an act approved Feb. 26, 1808, and it is provided that "the shares may be held one-third by individual proprietors of the Middlesex Canal Corporation, one-third by individual proprietors of the Newburyport Turnpike Corporation, and one-third by Andrew Craigie and his associates. The bridge to be built from the end of Leverett Street, in Boston, to the east end of Lechmere's Point, and thence to Barrett's Point, in Charlestown. The Middlesex Canal Corporation have authority to erect on either or both sides of said bridge such locks and other

works as may be necessary for conducting the boats of said corporation for the whole length of the bridge."

The corporation had power to collect toll for seventy years from the time of the completion of the bridge, and was required then to surrender the bridge to the Commonwealth in good repair, which arrangement was carried out the same as on West Boston Bridge.

The bridges remained in the custody of the city of Cambridge until 1870.

In May, 1869, the Legislature ordered draws built in each bridge, with openings for vessels, 44 feet wide. In 1870, the Legislature passed an Act, transferring the care of these bridges from the city of Cambridge to two commissioners, one to be chosen by Cambridge, and one by Boston; the fund to be divided between Cambridge and Boston, in such proportion as three commissioners, chosen by the governor, should determine, and the future expense of maintenance to be borne by the two cities in like proportion. These commissioners decided that the fund should be equally divided. This was done, and Cambridge paid to Boston $65,048.50, one-half the fund and accumulations. The same Act declares that the new draw-openings shall be 38 feet in width, but this was afterwards changed to 36 feet.

### West Boston Bridge

Was originally built in 1792–1793, with a length of 2,044.50 feet, and a surface of 102,225 square feet. The pier length was 427 feet, of which the area was 21,791 square feet. In 1854 this bridge was thoroughly repaired. In 1873 it was in such bad condition it was rebuilt at a cost of $131,975.00, and an engine and machinery to move the draw was put in, at the request of a largely signed petition of Cambridge citizens.

#### PROPERTY SCHEDULE.

Two wheelbarrows, 1 flag, 200 feet of rope, 2 snatch blocks, 1 ladder, 3 lanterns, 2 bushel baskets, 8 oil cans, 2 brooms, 1 tube cleaner, 1 table, 1 monkey wrench, 1 auger, 1 vise, 1 Stillson wrench, 2 hammers, 1 saw, 1 mallet, 1 ice saw, 2 pails, 1 adse, 1 top mall, 1 iron bar, 3 ice chisels, 1 axe, 2 files, 10 iron shovels, 3 wooden shovels, 175 feet hose, 2 long pokers.

#### BUILDING.

| | |
|---|---|
| One engine house | $400 00 |
| Engine and machinery | 300 00 |
| | $700 00 |

### Craigie's Bridge

Was originally built in 1808–1809, with a length of 1,268 feet, and an area of 79,311 square feet. The length of pier was 438 feet, and its area was 18,838 square feet. In 1852 this bridge was thoroughly repaired; in 1874 it was rebuilt, at a cost of $146,598.22.

PROPERTY SCHEDULE.

3 street hoes, 3 snow scrapers, 1 coal scoop, 3 corn brooms, 2 cold chisels, 1 crowbar, 1 hammer, 1 sledge, 1 snow plough, 1 saw, 6 windows, 4 oil cans, 2 ice chisels, 4 hand lanterns, 16 street lanterns, 1 flag, 30 fathom rope, 1 lamp, 1 iron block, 1 wheelbarrow, 2 long pokers.

BUILDINGS.

| | |
|---|---|
| Drawtender's house built 1875, cost | $2,498 98 |
| Engine house | 400 00 |
| Engine and machinery | 300 00 |
| Old building, Cambridge end | 300 00 |
| | $3,498 98 |

### Prison Point Bridge.

Built 1833. Length, 143.50 feet, containing 6,002 square feet. Length of pier, 227 feet, containing 6,133 square feet.

PROPERTY SCHEDULE.

100 ft. hose, 1 iron shovel, 1 pick axe, 1 adse, 1 axe, 1 brace and 3 bits, 2 chisels, 1 hammer, 2 yale padlocks, 1 snow shovel, 1 broom, 1 street hoe.

BUILDING.

| | |
|---|---|
| Drawtender's house built 1879, cost | $1,024 30 |
| Machinery to raise the draw | 200 00 |
| | $1,224 30 |

### Harvard Bridge.

A few facts in regard to this bridge may not be amiss in connection with this report.

In 1887 the city of Cambridge petitioned the Legislature for an Act to compel the city of Boston to build its portion of the bridge. This action led to a great deal of discussion of the whole subject and resulted in the passage of a mandatory Act, which provided for the appointment of a commission consisting of the Mayor of Boston,

the Mayor of Cambridge and a third person to be selected by them. It further provided that each city should pay half the expense, and the city of Boston was authorized to raise not exceeding $250,000.00 for this purpose, in excess of its debt limit.

When it became evident, in 1887, that the bridge was to be constructed without further delay, many citizens of each city thought that it should be a specially ornamental structure to cost upwards of $1,000,000.

The Act of 1887, however, directed the commissioners to build a bridge substantially in accordance with a plan the estimated cost of which was about $500,000.00.

At this time a great many names were suggested for the bridge; Blaxton, Chester, Shawmut, Longfellow and many others. The commissioners voted, on July 5, to name it Harvard Bridge, in honor of the Rev. John Harvard, founder of Harvard College.

The bridge is built across the Charles River, and connects West Chester Park, in Boston, with Front Street, in Cambridge.

The length of the bridge between centres of bearings on abutments is 2,164 ft. 9 in.; the distance between harbor lines measured at centre line of bridge being 2,159 ft. 4⅝ in.

The width of the bridge, excepting at the near draw, is 69 ft. 4 in. measured between centres of railings, this width being divided into one roadway 51 ft. wide, and two sidewalks each 9 ft. 2 in. wide.

The draw is 48 ft. 4 in. wide between centres of railings, the width of roadway being 34 ft. 6 in., and the width of each sidewalk 6 ft. 11 in.

The elevation of the roadway curb on the bridge, above the Boston city base, is 21 ft. at abutments, and increases to 29.5 ft. at piers near the draw, the bridge being level between these two piers.

The bridge as built is composed of fixed and suspended spans, generally 75 ft. 2½ in. long, and 105 ft. 3½ in. between centres of piers, with piers averaging 90 ft. 3 in. centre to centre.

The sub-structure consists of two masonry abutments, twenty-three masonry piers, and one pile foundation and fender piers for draw span.

The roadway and sidewalk stringers are hard pine, notched to floor beams and sidewalk brackets, to give the required grade and pitch to sidewalks and roadway.

The under course of roadway plank is 4 in. thick kyanized spruce and the upper course 2 in. thick spruce, excepting between the street car tracks, where it is 3 in. thick.

The roadway is provided with iron scuppers for draining it. Sidewalk plank on fixed spans is 2½ in. kyanized spruce. The wearing surface of the walks is made of asphalt, laid in the following manner: The plank having been covered with sheathing-paper, a layer of gravel and pebbles or small stone screenings, mixed with coal tar pitch, was laid ½ in. thick; on this base a layer of asphalt ½ in thick was placed, Barber Trinidad Asphalt being used on one-half of the work, and Simmes Asphalt Mastic being used on the other half.

One-half of the lamp posts on the fixed spans and all those on the draw are provided with incandescent electric lights, the balance of the lamp posts being fitted with gas lights.

The power for operating the draw is obtained from a 10-horse power Thomson-Houston electric motor, placed under the roadway and connected to gearing, which can also be operated by hand power. The draw is also provided with a friction brake for controlling its motion during opening and landing. The motor and brake are operated from a point on the sidewalk of the draw.

The motor is a perfect success. It moves the draw quickly and is easily handled.

On the up-stream pier a drawtender house has been erected, with two rooms and workshop.

The bridge for location cannot be surpassed. The view from it, looking up and down the Charles, is fine. On pleasant days and fine nights it is used quite extensively by Boston and Cambridge people as a promenade, and for carriage driving it cannot be excelled. The smooth plank roadway is well patronized by all kinds of vehicles. The people that seem to enjoy it most are the great army of cycle riders. The people going over this bridge seem to be infused with new life, also the horses, for as soon as they reach the bridge they want to put on more speed; and the electric cars are crowded at every trip.

Boston and Cambridge made no mistake when they built this beautiful bridge; more especially Cambridge, as it will have more influence in Cambridge's prosperity than any other outlay, for its increase of population will require houses. That will add to our wealth, and the mere cost of the bridge and keeping it in repair will be but a small tax compared to the benefits derived from it.

### HARVARD BRIDGE.

Built in 1887–1891. Length, 2,166.08 feet, area, 152,360 square feet. Length of pier, 356 feet, area, 18,368 square feet.

PROPERTY SCHEDULE.

1 desk, 5 chairs, 2 iron beds and bedding, 1 lounge, 1 stove, 2 lamps, 1 clock, 1 plan of bridge in oak frame, 2 hand saws, 2 hatchets, 2 hammers, 1 car adse, 1 mall, 1 bucksaw, 6 water pails, 1 water cooler, 1 crowbar, 1 floor bar, 1 dog bar, 1 rowboat, 17 feet long, 2 pair oars, 20 fathom ¾-inch rope, 2 roll window cord, 1 monkey wrench, 1 screw driver, 1 grindstone, 1 inkstand, 2 planes, 1 bit stock, 1 set of bits, 1 wheelbarrow, 4 block pulleys, 2 iron hooks, 1 pair rubber gloves, 1 wood mallet, 1 flag.

BUILDING.

| | |
|---|---|
| Engine house and office built 1889, cost . . . . . | $1,245 00 |
| Motor, 10-horse power, including cable and gear, cost . . . | 1,798 00 |
| | $3,043 00 |

WILLIAM J. MARVIN,
*Commissioner.*

# REPORT OF THE CAMBRIDGE WATER BOARD.

*To the Honorable the City Council of the City of Cambridge:* —

GENTLEMEN,— The Water Board herewith submits to you its twenty-eighth annual report, being for the year ending Nov. 30, 1892.

### Total Cost of the Water Works.

| | |
|---|---|
| Cost of the Works Nov. 30, 1891, as per report of last year | $2,934,389 28 |
| Expended during the past year | 260,825 10 |
| Making the total cost to Nov. 30, 1892 | $3,195,214 38 |

### Water Bond Account.

| | |
|---|---|
| Whole amount of Water Bonds issued | $2,984,900 00 |
| Amount paid from the Sinking Fund | 1,273,400 00 |
| Leaving Water Bonds outstanding | $1,711,500 00 |
| From this deduct the present value of the Water Debt Sinking Fund, as per the Trustees' account | 602,019 27 |
| Leaving bonds to be provided for by the Sinking Fund in the future | $1,109,480 73 |

Statements in brief of the transactions in connection with the Water Works for the year ending Nov. 30, 1892.

### General Construction Account.

RECEIVED.

| | |
|---|---|
| From bonds issued | $70,000 00 |
| From Premium on same | 2,560 00 |
| From advances, by the city, on appropriations made, but for which no bonds have been issued | 1,635 47 |
| From sale of ice houses, etc., at Fresh Pond | 7,200 00 |
| | $81,395 47 |

EXPENDED.

| | |
|---|---|
| On General Construction Account | $81,395 47 |

## Stony Brook Construction Account.

RECEIVED.

| | |
|---|---|
| From bonds issued | $75,000 00 |
| From Premium on same | 4,567 50 |
| From G. F. Haynes, Attorney for Nathaniel Sibley, being for one-half the amount paid by the city for stenographic reports | 415 85 |
| | $79,983 35 |

EXPENDED.

| | |
|---|---|
| For settlement of estates taken, etc. | $71,727 32 |
| Paid cash advanced by the city last year | 4,401 33 |
| Balance of appropriation carried to new account | 3,854 70 |
| | $79,983 35 |

## Fresh Pond Land Purchase Account.

RECEIVED.

| | |
|---|---|
| Balance of the appropriation from 1891 | $11,594 55 |
| From bonds issued | 125,000 00 |
| Premium on bonds sold | 5,712 50 |
| | $142,307 05 |

EXPENDED.

| | |
|---|---|
| For purchases and settlement for estates taken bordering on Fresh Pond | $107,702 31 |
| Balance unexpended carried to new account | 34,604 74 |
| | $142,307 05 |

## Water Rates, Fines and Supply Account.

RECEIVED.

| | | |
|---|---|---|
| From water rates | $239,012 50 | |
| Less rates refunded | 1,485 42 | |
| | | $237,527 08 |
| Shutting off, setting on, sealing, fines and rent | | 1,458 96 |
| From supply account | | 7,002 39 |
| Accrued interest on bonds sold | | 925 01 |
| From sale of hay, fruit, etc. | | 413 50 |
| | | $247,326 94 |

EXPENDED.

| | |
|---|---|
| For maintenance account | $46,733 13 |
| Supply account | 7,300 86 |
| Interest on Water Bonds | 88,165 00 |
| *Amount carried forward* | $142,198 99 |

| | |
|---|---|
| *Amount brought forward* | $142,198 99 |
| Interest paid into the Sinking Fund, being 3½ per cent. on $1,776,500 | 62,177 50 |
| Rent of box in safe deposit, for Sinking Fund | 20 00 |
| Amount transferred to the Street Department by the City Council, to build Grove, Adams and Cushing Streets | 10,000 00 |
| Amount transferred from the surplus receipts to Construction Account | 4,909 01 |
| Balance carried to the Water Bond Sinking Fund | 28,021 44 |
| | $247,326 94 |

## Comparative Statement of Receipts.

| | |
|---|---|
| Water Rates for the year 1892 | $237,527 08 |
| Water Rates for the year 1891 | 227,054 53 |
| Showing increase of Water Rates in 1892 | $10,472 55 |

## Comparative Water Supplied.

| | Gallons. |
|---|---|
| Amount of water pumped in 1892 | 1,961,362,760 |
| Amount of water pumped in 1891 | 1,778,056,773 |
| Showing an increase in 1892 | 183,305,987 |

## How the Water was Used.

| | Gallons. |
|---|---|
| Amount of water sold by meter | 430,125,000 |
| Amount used in watering streets | 75,837,625 |
| Amount used for domestic use, fires, fountains, and all other purposes | 1,455,400,135 |
| | 1,961,362,760 |

## Statement of Daily Consumption.

| | Gallons. |
|---|---|
| Daily average pumping for the high service through the stand pipe | 486,513 |
| Daily average pumping for the low service through the reservoir | 4,872,402 |
| | 5,358,915 |

**Table showing the Increase of the Consumption of Water during the past Five Years.**

| | Gallons | Daily Consumption | Daily Increase |
|---|---|---|---|
| Amount pumped in 1888 ..... | 1,514,483,582 | 4,137,947 | 276,547 |
| Amount pumped in 1889 ..... | 1,526,439,005 | 4,182,025 | 44,078 |
| Amount pumped in 1890 ..... .. | 1,638,550,512 | 4,489,180 | 307,155 |
| Amount pumped in 1891 ..... | 1,778,056,773 | 4,871,389 | 382,209 |
| Amount pumped in 1892 ..... | 1,961,362,760 | 5,358,915 | 487,526 |

The above table shows at a glance the total increase of water consumed year by year for the past five years, also the daily average increase in water used in the city. At this rate of increase, it will not be many years when the capacity of our main conduit between Stony Brook and Fresh Pond Reservoir will be fully reached, and a new additional main pipe will have to be put in.

**Comparative Rainfall and Height of Water in the Fresh Pond Reservoir for the past Five Years.**

| Months. | Rainfall. | | | | | Water in the reservoir below High water mark 16.85. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1888 | 1889 | 1890 | 1891 | 1892 | 1888 | 1889 | 1890 | 1891 | 1892 |
| | In. | In. | In. | In. | In. | Feet | Feet | Feet | Feet | Feet |
| December, 1891..... | 4.22 | 6.67 | 3.36 | 4.40 | 6.78 | 8.55 | .91 | 1.10 | .58 | 1.63 |
| January, 1892..... | 3.32 | 6.64 | 2.94 | 6.68 | 4.32 | 5.37 | .55 | 1.62 | .72 | .73 |
| February, " ..... | 3.95 | 2.81 | 5.22 | 4.61 | 2.46 | 3.69 | 1.07 | 1.20 | .59 | 1.05 |
| March, " ..... | 5.55 | 3.29 | 7.02 | 5.74 | 3.56 | 1.72 | 1.03 | 1.06 | .32 | 1.27 |
| April, " ..... | 2.60 | 3.73 | 4.83 | 2.72 | .77 | 1.14 | .88 | .32 | .30 | .98 |
| May, " ..... | 6.36 | 5.65 | 6.09 | 2.44 | 6.06 | .81 | .87 | .67 | .31 | .50 |
| June, " ..... . | 3.25 | 3.44 | 3.51 | 4.01 | 4.23 | 1.12 | .62 | 1.01 | 1.05 | .48 |
| July, " ..... | 2.87 | 8.53 | 2.77 | 3.06 | 2.53 | 2.39 | 1.28 | 2.32 | 2.15 | 1.87 |
| August, " ..... | 7.08 | 3.78 | 3.48 | 3.68 | 6.11 | 3.75 | .84 | 2.17 | 3.96 | 3.74 |
| September, " ..... | 8.28 | 5.30 | 4.05 | 2.73 | 1.84 | 3.24 | 2.06 | 1.92 | 3.57 | 3.07 |
| October, " ..... | 4.83 | 3.73 | 9.31 | 5.10 | 2 15 | 1.37 | 2.81 | 2.06 | 2.51 | 3.42 |
| November, " ..... | 7.70 | 6.51 | 1.28 | 3.08 | 4.04 | 1.25 | 1.75 | .94 | 2.27 | 3.96 |
| | | | | | | Av'ge | Av'ge | Av'ge | Av'ge | Av'ge |
| Totals | 60.01 | 60.08 | 53.80 | 44.25 | 44.85 | 2.87 | 1.22 | 1.36 | 1.53 | 1.89 |

It will be seen by the above table that the rainfall was the least the last year of any since the Stony Brook water was let into Fresh Pond Reservoir, and this with the large increase in consumption in part accounts for the less amount of water running to waste over the dam.

### Stony Brook Water Supply.

By the record that we keep it was ascertained that the water wasting over the dam at Stony Brook into Charles River, was about 2,700,000,000 gallons. There was no water running over the dam during August, September, October and November. During these months we drew down the Stony Brook Basin some eleven feet, to supply Fresh Pond Reservoir. It is more and more apparent that with the increasing consumption of water in our city, we shall need all the use and capacity of the Stony Brook Storage Basin to meet the demands for water, with the prospect that before many years we shall need an additional source of supply to carry us over the dry months of the year, and later on to supply the rapidly increasing consumption of water caused by the growth of the city, and the additional manufacturing interests that are being established among us.

### Around Fresh Pond Reservoir.

During the year all the buildings around the reservoir have been removed (except one kept for our own use); some eleven acres of low, swampy, unsightly land, in that taken from Dr. Somers, has been filled and graded, requiring about 70,000 cubic yards of material, and this is now being covered with loam, requiring about 10,000 cubic yards; after this it will be sown with grass seed, and instead of the stagnant, slimy water that formerly covered this tract in close proximity to our reservoir, we shall have a clean green field. There are other places around the reservoir that must be treated in the same way. These places are too low to drain, and must be filled. Black Nook, the swamps on the Black land, and on Mrs. Gay's, are the worst places left. When all are filled, the entire surroundings of Fresh Pond Reservoir will present a clean, neat and pleasant appearance.

### Land Taken Around Fresh Pond.

During the past year settlements have been made with Mr. Smith and the Boston Ice Company, both based on the Commissioners'

awards. All the purchases and takings around the pond made previous to the last year, are now settled and paid, except the Dr. Somers' claim. This claim has been appealed from the Commissioners' award, which we considered excessive, and which we did not feel justified in accepting. During the past year we made a taking on Strawberry Hill, which we thought it was necessary to have, in order to protect our water supply from buildings too near our reservoir. This is the last taking authorized under the Act of 1888, and will enable us to construct a public street outside our reservoir grounds, so that no buildings can be erected between such street and the reservoir, on any side, except where the building is for our own use, and under our full control.

### High Service Supply.

For some time past there has been well grounded complaints by people living on the high lands of Cambridge, in regard to their supply of water. During the year we have procured a new high service pump, from the Blake Pump Manufacturing Co., of much larger capacity than the old pump. This new pump we are now running day and night. This gives great satisfaction to our high service customers, and meets a long felt want with them. The old pump will now be thoroughly repaired and placed in the basement to be used as a duplicate in case of need. This change will clear the way and make room for the erection of a large pump in the centre of the Engine House which will be required when the reservoir on Payson Hill is completed and a general high service is adopted for the whole city.

### Looking Forward.

It having become evident that with the increased and constantly increasing consumption of water in our city, by which the pressure is reduced more or less in all parts of the city by the large drafts made on our pipes, the Board decided that the time had come when a general higher service must soon be provided for the whole city. As there were but few convenient places for a high service reservoir, we visited all the places that seemed at all eligible, and decided that on the whole Payson Hill was the best. We therefore made a taking of about eleven and one-half acres at that place. This taking was unanimously approved by the City Council, and thus the site secured.

It is not the intention of the Board to ask for an appropriation the coming year to build this reservoir, but the City Engineer will, as he finds time, make us a plan of such a reservoir as he would recommend for the place. When we change to a general high service besides the reservoir, we must have a new and large high service pump, new conduit leading from the engine house to the high reservoir, all to be connected with our present distributing pipes leading over the city. When done it will add greatly to our protection against fire, as the pressure at any hydrant in the lower part of the city will be sufficient to throw a stream through a hose over any ordinary building without the help of a steamer, and besides it will greatly add to the efficiency of our fire steamers when in use.

### Adams and Grove Streets.

By an Act of the Legislature the city was bound through its Water Board or other agents to make these streets "forty feet wide and put them in good condition." This work has been done the past season by the Street Department, and $10,000.00 appropriated from the water rates by the City Council to pay for the same. At the same time with this appropriation the Street Department have greatly improved Cushing Street, from Grove to Mt. Auburn Streets, which was much needed.

### Extension of Huron Street.

During this year an iron bridge has been contracted for by this Board, which is nearly completed, over the Watertown Branch of the Fitchburg Railroad, connecting Huron Street extended with the land devoted to a street seventy feet wide, which runs from this bridge to Cushing Street near the Shooting Range. We shall ask for an appropriation, to be met by the surplus water rates, to enable us to build one portion of what is to be a most beautiful avenue, seventy feet wide, from Concord Avenue and Sparks Street, and also to build another bridge over our pipe line, leading from Holworthy Street to the Gate House on the borders of the reservoir, which is opposite the fountain where the Stony Brook water comes into our storage basin.

### Work that should be done the Coming Year.

*First*, The work of filling and grading the low places around Fresh Pond Reservoir should be continued and prosecuted with all possible dispatch until it is completed.

*Second*, The extension of Huron Street to Cushing Street should be commenced in the early spring, including a contract for a bridge over our pipe line, so that our part of this new avenue may be completed as soon as the other part is done. When it is all done, we would recommend that it be named Fresh Pond Avenue, from Concord Avenue to Concord Avenue, including a part of Sparks Street, all of Huron Street, and parts of Cushing, Grove and Adams Streets. This would make, with Concord Avenue on one side, a complete outside public avenue nearly all around our Fresh Pond Reservoir grounds.

*Third*, Finish the driveway on the border of the reservoir, opposite the Boston Ice Company's former grounds, and rip-rap the shores, filling the nook of the pond that was between the ice houses, and in this connection arrange for the removal of the Fitchburg Railroad track that runs in here, and grade the land now occupied under and near the track.

*Fourth*, Have a new roof of copper put on the engine house in place of the tin, leaky and worn-out one there now. Also put an iron balustrade in the place of the wooden and partly rotten one that is there now.

*Fifth*, Provide a house for our engineer, either by moving the one in the Grove and altering it to suit, or else sell the old house and build a new one of a more modern design.

*Sixth*, The work of renewal of main pipes in streets where they are now too small, and in many places are nearly full incrustations, should be continued. During the past year more than 13,600 feet of such renewals have been made, and this work should not stop until all our pipes are of sufficient size and in good order.

### Reference to other Reports.

For the detailed statement, more fully than we have given it, of what has been done and the present condition of our Water Works, we would refer you to the reports of our Superintendent, Registrar and Pumping Engineer to us, which we herewith transmit to you as a part of our report to you.

### General Remarks.

It affords us pleasure to testify to the competent and faithful work of our Superintendent, who early and late is found at the post of duty, making duty always a pleasure. The Registrar has his

office work well in hand, and can readily answer all questions pertaining to the accounts connected with the Water Works accounts. Our Pumping Engineer has been of especial value the past year in looking after the erection of the new high service pump. The City Engineer and City Solicitor have rendered valuable and cheerful service when needed in their departments, and all our regular employés have served with credit to themselves in the interest of the city.

All of which is respectfully submitted,

C. W. KINGSLEY,
L. M. HANNUM,
JOHN F. O'BRIEN,
JAS. M. W. HALL,
GEO. H. HOWARD,
*Cambridge Water Board.*

# REPORT OF THE WATER REGISTRAR.

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WATER REGISTRAR'S OFFICE,
CAMBRIDGE, Dec. 9, 1892.

*To the Cambridge Water Board:* —

In compliance with the requirements of the City Ordinance, I present the twenty-eighth annual report of the operations of this department, showing the receipts, expenditures and abatements, together with a statement of the number of water takers, etc., for the year ending Nov. 30, 1892.

Amount of bills remaining unpaid Nov. 30, 1891: —

| | |
|---|---|
| Water rates | $532 45 |
| Meter rates | 158 83 |
| Supplies and repairs | 2,196 41 |
| Off and on | 47 00 |
| Seals | 5 75 |
| Rent | 8 00 |

Amount of bills placed in hands of City Treasurer for collection from Nov. 30, 1891, to Nov. 30, 1892: —

| | | |
|---|---|---|
| Water rates | 187,008 65 | |
| Meter rates | 55,337 30 | |
| Supplies and repairs | 6,632 62 | |
| Off and on water, rents, seals and fines | 1,480 21 | |
| Total bills | | $253,407 22 |

There have been collected: —

| | |
|---|---|
| Water rates | $239,012 50 |
| Off and on water, rents, seals and fines | 1,458 96 |
| Supplies and repairs | 7,002 39 |

There have been abated: —

| | |
|---|---|
| Water rates | 3,003 35 |
| Supplies and repairs | 40 98 |
| *Amount carried forward* | $250,518 18 |

| | | |
|---|---|---|
| *Amount brought forward* | $250,518 18 | |
| There remain unpaid: — | | |
| Water rates | 670 40 | |
| Meter rates | 358 98 | |
| Supplies and repairs | 1,785 66 | |
| Off and on | 55 00 | |
| Seals | 3 00 | |
| Rent | 16 00 | |
| | | $253,407 22 |

## Expenditures.

| | | | |
|---|---|---|---|
| Construction account (Stony Brook) | | $71,727 32 | |
| Construction account (Fresh Pond Land) | | 107,702 31 | |
| Construction account (general) | | 81,395 47 | |
| Maintenance account, viz.: — | | | |
| Care and repairs | $27,308 93 | | |
| Pumping service | 13,503 51 | | |
| Office expenses | 3,920 69 | | |
| Rent of offices and shop | 2,000 00 | | |
| | | 46,733 13 | |
| Supply and repair account | | 7,300 86 | |
| | | | $314,859 09 |

## Abatements.

| | | |
|---|---|---|
| Water rate bills to the amount of | $3,003 35 | |
| Supply and repair bills to the amount of | 40 98 | |
| | | 3,044 33 |

## Refunds.

| | | |
|---|---|---|
| Water rates to the amount of | $1,485 42 | |
| Which amount deducted from the receipts | 239,012 50 | |
| Leaves net receipts for water | 237,527 08 | |
| Add off and on water, rents, seals and fines | 1,458 96 | |
| Makes net receipts of "Rates, fines, etc." | | $238,986 04 |

## Off and On.

Water has been shut off for non-payment of rates or per order on account of vacancy, and seals have been applied to fixtures by request of owners or occupants as follows: —

| | |
|---|---|
| Supplies shut off in 1892 | 513 |
| Supplies let on, shut off in 1892 | 401 |
| Supplies let on, shut off in previous years | 80 |
| New supplies let on | 439 |
| Seal locks applied to fixtures in 1892 | 608 |
| Seal locks removed, put on in 1892 | 259 |
| Seal locks removed, put on in previous years | 262 |

## Comparative Statement.

| | 1891. | | 1892. | |
|---|---|---|---|---|
| **Construction Acc't (Stony Brook).** | | | | |
| RECEIVED. | | | | |
| From city of Cambridge (cash advanced for payment of sundry bills). | $4,040 13 | | | |
| From bonds issued | | | $75,000 00 | |
| From premium on bonds | | | 4,567 50 | |
| From G. F. Haynes, Att'y for Nathaniel Sibley (one-half cost stenographic report) | | $4,040 13 | 415 85 | $79,983 35 |
| EXPENDED. | | | | |
| Settlement for estates taken, etc | $4,040 13 | | $71,727 32 | |
| Cash advanced by the city, 1890-1891 | | | 4,401 33 | |
| Balance of appropriation | | $4,040 13 | 3,854 70 | $79,983 35 |
| **Construction Acc't (Fresh Pond Land Purchase).** | | | | |
| RECEIVED. | | | | |
| Balance of appropriation | $14,141 33 | | $11,594 55 | |
| From bonds issued | 20,000 00 | | 125,000 00 | |
| From premium on bonds | 1,178 00 | | 5,712 50 | |
| | | $35,319 33 | | $142,307 05 |
| EXPENDED. | | | | |
| Purchase and settlement of sundry estates | $23,724 78 | | $107,702 31 | |
| Balance of appropriation | 11,594 55 | | 34,604 74 | |
| | | $35,319 33 | | $142,307 05 |
| **Construction Acc't (General).** | | | | |
| RECEIVED. | | | | |
| From bonds issued | $35,000 00 | | $70,000 00 | |
| From premium on bonds | 616 00 | | 2,560 00 | |
| From sale of buildings at Fresh Pond | | | 7,200 00 | |
| From excess of receipts from "Rates, fines, etc." | | | 1,635 47 | |
| Cash advanced by the city (expenditure in excess of bonds issued) | 3,273 54 | | | |
| | | $38,889 54 | | $81,395 47 |
| EXPENDED. | | | | |
| Sundry bills | | $38,889 54 | | $81,395 47 |
| **Maintenance Account.** | | | | |
| RECEIVED. | | | | |
| Accrued interest on water bonds | $228 89 | | $925 01 | |
| Sale of engine, boilers, hay, fruit, etc., at Fresh Pond | 1,022 70 | | 413 50 | |
| Rent from Fresh Pond Ice Co | 1,050 00 | | | |
| From "Rates, fines, etc." | 229,367 31 | | 238,986 04 | |
| | | $231,668 90 | | $240,324 55 |
| EXPENDED. | | | | |
| Care and repairs | $69 274 42 | | $46,733 13 | |
| Interest on water debt | 84,595 00 | | 88,165 00 | |
| Paid to Sinking Fund Commissioners | 62,002 50 | | 62,177 50 | |
| Salary of Treasurer of Sinking Fund | 200 00 | | | |
| Rent of box in safety vault | 20 00 | | 20 00 | |
| | | $216,091 92 | | $197,095 63 |
| Excess of receipts | | $15,576 98 | | $43,228 92 |
| **Supply Account.** | | | | |
| Received | $7,137 45 | | $7,002 39 | |
| Expended | 6,810 80 | | 7,300 86 | |
| Excess of receipts | | $326 65 | | |
| Excess of expenditures | | | | $298 47 |

| | | | |
|---|---|---|---|
| 1891. | Maintenance Account, excess of receipts | | $15,576 98 |
| | Supply Account, excess of receipts | | 326 65 |
| | Excess of total receipts over total expenditures | | $15,903 63 |
| | Transferred to Street Department appropriation by order of City Council | | 12,400 00 |
| | Balance due the Sinking Fund | | $3,503 63 |
| 1892. | Maintenance Account, excess of receipts | | $43,228 92 |
| | Supply Account, excess of expenditure | $298 47 | |
| | Transferred to Street Department appropriation by order of City Council | 10,000 00 | |
| | Transferred to Construction Account by order of City Council | 4,909 01 | 15,207 48 |
| | Balance due the Sinking Fund | | $28,021 44 |

The excess of receipts for 1892, as shown in the above comparative statement, amounting to $28,021.44, has been carried to the Sinking Fund, as required by law.

Statement of the yearly revenue received from water rates since the purchase of the works by the city: —

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| From April 28, 1865, | to | Dec. | 1, | 1865 | . . . . . | $32,367 | 19 |
| " Dec. | 1, | 1865, | " | 1, | 1866 | . . . . . | 40,073 | 27 |
| " " | 1, | 1866, | " | 1, | 1867 | . . . . . | 52,733 | 62 |
| " " | 1, | 1867, | " | 1, | 1868 | . . . . . | 63,747 | 42 |
| " " | 1, | 1868, | " | 1, | 1869 | . . . . . | 76,149 | 30 |
| " " | 1, | 1869, | " | 1, | 1870 | . . . . . | 92,606 | 95 |
| " " | 1, | 1870, | " | 1, | 1871 | . . . . . | 111,782 | 65 |
| " " | 1, | 1871, | " | 1, | 1872 | . . . . . | 127,201 | 30 |
| " " | 1, | 1872, | " | 1, | 1873 | . . . . . | 146,117 | 32 |
| " " | 1, | 1873, | " | 1, | 1874 | . . . . . | 153,634 | 27 |
| " " | 1, | 1874, | " | 1, | 1875 | . . . . . | 138,880 | 37 |
| " " | 1, | 1875, | " | 1, | 1876 | . . . . . | 179,166 | 76 |
| " " | 1, | 1876, | " | 1, | 1877 | . . . . . | 154,843 | 59 |
| " " | 1, | 1877, | " | 1, | 1878 | . . . . . | 157,443 | 91 |
| " " | 1, | 1878, | " | 1, | 1879 | . . . . . | 164,681 | 90 |
| " " | 1, | 1879, | " | 1, | 1880 | . . . . . | 173,325 | 49 |
| " " | 1, | 1880, | " | 1, | 1881 | . . . . . | 170,062 | 73 |
| " " | 1, | 1881, | " | 1, | 1882 | . . . . . | 177,430 | 80 |
| " " | 1, | 1882, | " | 1, | 1883 | . . . . . | 179,361 | 89 |
| " " | 1, | 1883, | " | 1, | 1884 | . . . . . | 161,526 | 27 |
| " " | 1, | 1884, | " | 1, | 1885 | . . . . . | 185,544 | 36 |
| " " | 1, | 1885, | " | 1, | 1886 | . . . . . | 199,404 | 43 |
| " " | 1, | 1886, | " | 1, | 1887 | . . . . . | 204,748 | 64 |
| " " | 1, | 1887, | " | 1, | 1888 | . . . . . | 211,156 | 27 |
| " " | 1, | 1888, | " | 1, | 1889 | . . . . . | 221,124 | 70 |
| " " | 1, | 1889, | " | 1, | 1890 | . . . . . | 231,116 | 32 |
| " " | 1, | 1890, | " | 1, | 1891 | . . . . . | 227,054 | 53 |
| " " | 1, | 1891, | " | 1, | 1892 | . . . . . | 237,527 | 08 |

In addition to the manufactories, etc., supplied through meters, water is supplied to 17,956 families, 1,142 stables, with 3,283 horses and 366 cows, 296 shops, 662 offices and stores, by the following fixtures, viz.: —

| | |
|---|---|
| 20,526 faucets, | 7 hopper closets, |
| 5,637 wash-basins, | 100 urinals, |
| 5,013 washtubs, | 28 yard hydrants, |
| 4,915 bathtubs, | 5 fountains, |
| 578 slop closets, | 24 tumbler washers, |
| 12,052 pan closets, | 1,676 hand hose, |

6 motors.

Also,

747 fire hydrants (besides 19 on private premises),
8 fire reservoirs,
19 drinking fountains in public squares,
53 street watering standpipes.

The above schedule of fixtures is exclusive of the school houses, engine houses, police stations, and other city buildings.

The usual house-to-house inspection of the service pipes and fixtures on the premises has been made with the customary satisfactory results.

Respectfully submitted,

WALTER H. HARDING,

*Registrar.*

# REPORT OF THE COMMITTEE ON ACCOUNTS.

We have examined the abstract of accounts as presented by the Water Registrar, covering the records of the past year. We have compared it with the statements submitted by the City Treasurer and Auditor, and we find it to be correct. Annexed is the financial statement presented to us by the Water Registrar, and verified by us: —

Amount of bills in hands of City Treasurer, Nov. 30, 1891:

| | | |
|---|---|---|
| For water rates | $691 28 | |
| Supplies and repairs | 2,196 41 | |
| Off and on and seals | 52 75 | |
| Maintenance account | 190 23 | |
| Rent | 8 00 | |
| | | $3,138 67 |

Amount of bills delivered to the City Treasurer for collection during the year ending Nov. 30, 1892:

| | | |
|---|---|---|
| Water rates | $187,008 65 | |
| Meter rates | 55,337 30 | |
| Supplies and repairs | 6,632 62 | |
| Off and on rent and seals | 1,480 21 | |
| Maintenance account | 432 65 | |
| | | 250,891 43 |
| Total bills | | $254,030 10 |

| | | |
|---|---|---|
| There have been collected | $247,887 35 | |
| There have been abated | 3,044 33 | |
| Balance uncollected Nov. 30, 1892, water rates | 1,029 38 | |
| Balance uncollected Nov. 30, 1892, supplies and repairs | 1,785 66 | |
| Balance uncollected Nov. 30, 1892, off and on and seals | 58 00 | |
| Balance uncollected Nov. 30, 1892, maintenance account | 209 38 | |
| Balance uncollected Nov. 30, 1892, rent | 16 00 | |
| | | 254,030 10 |

| | | |
|---|---|---|
| Total collections on rates, fines, etc., and supplies and repairs | $247,887 35 | |
| Less rates refunded | 1,485 42 | |
| Net collections | | $246,401 93 |

JAS. M. W. HALL,
L. M. HANNUM,
} *Committee on Accounts.*

CAMBRIDGE, Dec. 1, 1892.

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OFFICE OF CITY TREASURER,
CAMBRIDGE, Dec. 1, 1892.

*To the Cambridge Water Board:* —

GENTLEMEN,— I give you herewith a record of the transactions between the Water office and the City Treasurer's office during the year ending Nov. 30, 1892: —

| | |
|---|---|
| Gross collections for account of "Water Works, rates, fines, etc." | $243,474 81 |
| Abatement certificates received and paid on "Water rates" | 3,003 35 |
| Gross collections on account of "Water works, supply account" | 7,043 37 |
| Abatement certificates received and paid on "Supply account" | 40 98 |
| "Refund checks" have been presented and paid to the amount of | 1,485 42 |
| The uncollected bills in my hands Nov. 30, 1892, for account of "Maintenance" and "Water rates" is | 1,312 76 |
| The uncollected bills in my hands Nov. 30, 1892, for account of "Supplies, repairs, etc." is | 1,785 66 |
| The gross collections on account of "Water works, maintenance" is | 413 50 |

Very respectfully,

WM. W. DALLINGER,
*City Treasurer.*

OFFICE OF CITY AUDITOR, CITY HALL,
CAMBRIDGE, Dec. 1, 1892.

*To the Cambridge Water Board:—*

GENTLEMEN,— I herewith present a statement from my books for the year ending Nov. 30, 1892.

WATER WORKS (RATES, FINES, ETC.).

| | | |
|---|---|---|
| Amount of uncollected bills in City Treasurer's hands Dec. 1, 1891 | | $752 03 |
| Amount of bills placed in City Treasurer's hands for collection | | 243,826 16 |
| Total | | $244,578 19 |
| Amount collected by City Treasurer | | 243,474 81 |
| Balance uncollected | | $1,103 38 |
| Amount of abatements allowed by City Treasurer | $3,003 35 | |
| Amount of refunds paid by City Treasurer | 1,485 42 | |

WATER WORKS (SUPPLIES).

| | | |
|---|---|---|
| Amount of uncollected bills in City Treasurer's hands Dec. 1, 1891 | | $2,196 41 |
| Amount of bills placed in City Treasurer's hands for collection | | 6,632 62 |
| Total | | $8,829 03 |
| Amount collected by City Treasurer | | 7,043 37 |
| Balance uncollected | | $1,785 66 |
| Amount of abatements allowed by City Treasurer | $40 98 | |

WATER WORKS (MAINTENANCE).

| | | |
|---|---|---|
| Amount of uncollected bills in City Treasurer's hands Dec. 1, 1891 | | $190 23 |
| Amount of bills placed in City Treasurer's hands for collection | | 432 65 |
| Total | | $622 88 |
| Amount collected by City Treasurer | | 413 50 |
| Balance uncollected | | $209 38 |

Respectfully submitted,

HARRY T. UPHAM,
*City Auditor.*

## ANNUAL STATEMENT OF THE WATER REGISTRAR TO THE COMMITTEE ON ACCOUNTS, DEC. 1, 1892.

| | | | |
|---|---|---|---|
| Water rates unpaid, Nov. 30, 1891 . | $691 28 | | |
| Off and on bills unpaid, Nov. 30, 1891 | 47 00 | | |
| Seal bills unpaid, Nov. 30, 1891 . | 5 75 | | |
| Rent bills unpaid, Nov. 30, 1891 . | 8 00 | | |
| Maintenance bills unpaid, Nov. 30, 1891 . . . . . | 190 23 | | |
| | | $942 26 | |
| Bills placed in hands of the City Treasurer for collection, from Dec. 1, 1891, to Dec. 1, 1892: — | | | |
| Water rates from annual ledgers . | $174,960 75 | | |
| Water rates from fractional ledgers | 12,047 90 | | |
| Water rates from meter ledgers . | 55,337 30 | | |
| Off and on water . . . . | 522 50 | | |
| Rent . . . . . | 851 96 | | |
| Fines . . . . . | 4 00 | | |
| Maintenance account . . . | 432 65 | | |
| Seals . . . . . | 101 75 | | |
| | | 244,258 81 | |
| Total bills on rates, fines, etc. . | | $245,201 07 | |
| Supply and repair bills unpaid Nov. 30, 1891 . . . . . | $2,196 41 | | |
| Supply and repair bills placed in hands of the City Treasurer for collection, from Dec. 1, 1891, to Dec. 1, 1892 . . . . | 6,632 62 | | |
| | | $8,829 03 | |
| Total bills . . . . . | | | $254,030 10 |
| There have been collected: — | | | |
| Annual ledgers . . . . | $173,762 95 | | |
| Fractional ledgers . . . . | 10,129 40 | | |
| Meter ledgers . . . . . | 55,120 15 | | |
| Off and on ledgers . . . . | 506 50 | | |
| Rent . . . . . | 843 96 | | |
| Seals . . . . . | 104 50 | | |
| Fines . . . . . | 4 00 | | |
| Maintenance account . . . | 413 50 | | |
| Total collections on "Rates, fines, etc." . . . . | | $240,884 96 | |
| Collections on Supply and Repair account . . . . . | | 7,002 39 | |
| Total collections . . . | | $247,887 35 | |
| *Amounts carried forward* . . . . | | $247,887 35 | $254,030 10 |

| | | | |
|---|---|---|---|
| *Amounts brought forward* . . . . | | $247,887 35 | $254,030 10 |
| There have been abated: — | | | |
| Water rates . . . . . | $3,003 35 | | |
| Supplies and repairs . . . | 40 98 | | |
| There remain uncollected: — | | | |
| Water rates . . . . . | 1,029 38 | | |
| Supplies and repairs . . . | 1,785 66 | | |
| Off and on . . . . . | 55 00 | | |
| Seals . . . . . | 3 00 | | |
| Rent . . . . . | 16 00 | | |
| Maintenance account . . . | 209 38 | | |
| | | 6,142 75 | |
| | | | $254,030 10 |
| Total bills for collection . . | | $254,030 10 | |
| Less abated . . . . . | $3,044 33 | | |
| Less refunded . . . . | 1,485 42 | | |
| Less unpaid . . . . . | 3,098 42 | | |
| | | 7,628 17 | |
| Net receipts . . . . . | | | $246,401 93 |

Attest: WALTER H. HARDING,

*Registrar.*

# REPORT OF THE SUPERINTENDENT OF THE WATER WORKS.

CAMBRIDGE, NOV. 30, 1892.

*To the President and Members of the Cambridge Water Board:* —

GENTLEMEN, — The annual report of your Superintendent upon the condition of the works and the operations of the year is herein presented.

The total amount of water pumped was 1,961,362,760 gallons.

The total amount of coal consumed was 2,990,200 pounds.

The coal consumed per million gallons pumped was $1{,}524\frac{55}{100}$ pounds.

Water sold by meter and that used for watering streets, for fountains and flushing sewers, 534,962,625 gallons, leaving the amount for domestic use, 1,426,400,135 gallons.

Number of gallons daily for each inhabitant on whole amount pumped, 66.

Number of gallons daily for each inhabitant on amount for domestic use, private stables and hose, 48.

### Fresh Pond and Surroundings.

The average height of water in the receiving basin has been 14.95.

It reached its highest point May 23, viz.: 16.64, and its lowest August 3, viz.: 12.29.

The rainfall as observed at the engine house was $44\frac{85}{100}$ inches.

Water was drawn from Stony Brook as follows: July 10 the gate was closed on this source, height of water, 81.10; August 16 it was opened, height of water, 80.65; October 10 it was closed, height of water, 70.04; October 31 it was again opened, height of water, 71.14.

It reached its lowest point November 10, viz.: 69.56 or $11\frac{44}{100}$ feet below the crest.

The height at this date is 79.74 or $2\frac{26}{100}$ feet below the crest.

The rainfall as observed at this basin was $37\frac{9}{100}$ inches.

### Receiving Basin and its Surroundings.

During the winter when the ground was frozen, the trees and brush were cut in the Tudor, Black and Gay swamps, preparatory to grading the same.

Dr. Keene having given the land to widen Fresh Pond Lane to forty feet from Huron Street to the Park Bridge, also a strip of land forty feet in width parallel with the Fitchburg Railroad track, to open a street from the bridge to Larch Street, a distance of about two hundred and twenty-five feet, these improvements were commenced April 1, and completed the latter part of same month.

Larch Street, also, was graded from the new extension to the Fitchburg depot by this department.

A new and substantial fence was built by the Fitchburg Railroad Company on its line from the depot to the Park Bridge.

A fence was built by this department on both sides of Fresh Pond Lane from Huron Street to the Park Bridge, and on the east side of the new extension.

The opening of Larch Street from the depot to the Park Bridge was a much needed improvement, as it gives access to the Park drives without opening gates and without danger from crossing the track at grade.

The rip-rapping around the basin is in good condition and has needed but slight repair.

The roadway has been kept clean and properly graded.

The work of filling the swamp and grading the banks on the west side of the reservoir was continued until January 5, when it ceased for the winter. It was commenced again the latter part of April and continued until July 3.

A large amount of grading and loaming was done, nearly completing that portion of the Park to the Lilly Pond.

Early in the season an arrangement was made with the Fitchburg Railroad Company to build about one and one quarter miles of track from where the Tudor Ice track crosses Concord Avenue to and along the north shore, Black's Nook to the Gay bank at the Belmont line. An additional arrangement was made with them to furnish a locomotive, engineer, firemen, conductor, brakeman and twenty dump cars for the purpose of filling and grading the Tudor swamp, bordering Concord Avenue. June 6 this work was commenced and continued uninterruptedly until its completion; Nov-

ember 23 sixty-eight thousand cubic yards of filling had been moved from the Gay bank for that purpose.

A contract has been let to parties to cover this new graded territory with about nine thousand cubic yards of loam; the work has been commenced and is to be completed by May 1, 1893.

The filling of this territory has removed all danger from the overflow of the meadows and obliterated a very unsightly place.

The filling of Black's Nook is now progressing very favorably, and it is expected that it will be possible to not be obliged to refer to this notorious place again, as being in existence.

The ice houses, formerly owned by the Boston Ice Company, have been sold and torn down; and the parties purchasing not having removed the bricks, after having the time specified for their removal extended twice, they were advertised, sold at public sale, and came into the possession of this department. They now are being dumped into the bay between the former locations of the ice houses to make a foundation for the purpose of filling and rip-rapping the only portion of the basin not completed.

All of the ice houses, the Black house, Lyons stable, Gay house and barn, two Smith houses, and the old Fresh Pond Hotel have been removed.

The street department having widened and graded Grove and Adams Streets, from Cushing Street to Concord Avenue, a new fence was built to grade and line the entire distance excepting in front of the White estate, where the old fence was moved back as it was in good condition.

A fence has been built on Concord Avenue, from Adams Street to the Park drive, and from the Fitchburg Railroad track to the fence built last year.

Total length of fence built and moved back was six thousand five hundred and fifty-four feet, divided as follows: Nine hundred and sixteen feet of new fence in Adams Street, twenty-three hundred and twenty-six feet of new fence in Grove Street, thirteen hundred and twenty-seven feet of new fence in Concord Avenue, eight hundred and twenty-five feet of new fence in Fresh Pond Lane, two hundred and twenty-five feet of new fence in Larch Street, and nine hundred and thirty-five feet of old fence moved back in Adams Street.

All of the grass on the east and south sides of the Park was sold standing; the remainder was cut and stored in the stables on Concord Avenue and at the pipe yard.

The stable and tool-house on Concord Avenue have been painted and put in good condition.

The small ell connected with the brick house needs shingling.

The driven wells in the stable and house were re-driven, as they were clogged and a source of constant annoyance.

### Pumping Works.

A new cast-iron roof has been put on the top of the boiler house chimney; a lightning rod and ladder have been attached.

The re-covering of the engine house roof was postponed until the coming spring.

The stone and brick work on the engine house and boiler house has been thoroughly pointed.

The new high service pump is completed, and is now in commission; it will soon commence running day and night, giving a constant supply to parties on the high elevations.

The old high service pump will be repaired as soon as the new one is in thorough running order.

The walks have been kept graded, and the grass cut on the engine house lot and Tudor parks.

### Reservoir.

No repairs have been necessary.

The grass has been cut, and the walks received the usual care.

The standpipe will need painting during the coming season.

### Stony Brook.

Daily average number of gallons by the month flowing over the waste way, was as follows: —

| | | | | | |
|---|---|---|---|---|---|
| December, | 1891 | 9,678,827 gals. | June, | 1892 | 6,534,295 gals. |
| January, | 1892 | 30,655,620 " | July, | " | 3,265,814 " |
| February, | " | 16,740,105 " | August, | " | No overflow. |
| March, | " | 35,209,500 " | September, | " | No overflow. |
| April, | " | 12,762,063 " | October, | " | No overflow. |
| May, | " | 17,030,789 " | November, | " | No overflow. |

Total amount wasted, 3,688,997,488 gallons.

A great deal of trouble was experienced this fall on account of leaves collecting on the screens. Some arrangement should be made outside the gate-house to prevent them from getting into the screen

room. At present there is no way to work outside the gate-house when leaves are falling, excepting from a boat which is almost useless.

The dwelling house roof on the south side will require shingling this season.

There should be an addition made to the barn, as it is very small and inconvenient. This could be done at slight expense, as the keeper, Mr. Baxter, could do nearly all the work.

### Stony Brook Pipe Line.

There have been no leaks on this line during the year.

All of the gates and blow-offs have been inspected and their locations marked.

### Pipe Yard.

A two-story building has been erected between the dwelling-house and the carriage house, where the long, low shed formerly stood. Two rooms on the lower, and two on the upper floors were furnished and connected to the house, supplying a much needed convenience.

The house and stable will need painting this season.

### Pipe Bridges.

While the First Street Bridge was being built across Broad Canal, a 12-inch siphon was laid, and the main pipe was extended and connected with the 8-inch main on West Boston Bridge; it also was extended north to Binney Street. This main should be extended up Binney Street to Third Street, and as soon as the streets are made to grade and line through First Street, to connect with the main pipe, now laid.

The North Avenue Bridge has been put in thorough repair. This bridge is owned jointly with the Cambridge Gas Company, and this time the repairs were made under the direction of Mr. Allyn, the superintendent.

The wooden bridge at Mt. Auburn Station being very much decayed, was removed and an iron one built in its place.

As the city was to build a new and iron bridge in Walden Street, arrangements were made in its construction for supports for a 12-inch main. When the flooring of the bridge was in

position this line of pipe was laid and can be connected any time when it is necessary to increase the size of the pipe in this street.

The covering of the Brookline Street Bridge has been temporarily repaired. The west side of this bridge should have new studding, and then covered with plank, as drift ice often piles against it.

### Main Pipe.

16,784 feet of various sizes of main pipes have been laid for new extensions, and 13,628 feet for renewals; 16,013 feet of various sizes have been laid for supplies, making $8\frac{79}{100}$ miles of trenching and back filling.

The engineer's report, statements in detail of main pipe and supplies laid, of gates and hydrants set, locations of fountains, standpipes, check valves, and meters, with inventory of stock and tools, accompany this report; all of which are respectfully submitted.

A much needed want has been supplied, by the addition of a large map of the city, drawn at a scale 200 feet to an inch, with lines and sizes of pipe, the same being hung in the board room. Opportunity for quick reference and minute description is hereby afforded.

HIRAM NEVONS,
*Superintendent.*

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### Main Pipe.

Main pipes have been laid in the following streets: 200 ft. of 2 in. in Bacon Court; 73 ft. of 6 in. in Banks St.; 155½ ft. of 6 in. in Beech St.; 192 ft. of 6 in. in Belmont St.; 60 ft. of 8 in. in Bent St.; 3 ft. of 1½ in., and 240 ft. of 4 in., in Berkeley St. Place; 253 ft. of 6 in. in Berkeley St. (renewal); 149 ft. of 4 in. in Broadway (high service); 77 ft. of 6 in. in Buckingham St. (renewal); 38 ft. of 6 in. in Cambridge St.; 3 ft. of 1½ in., and 497½ ft. of 6 in., in Cameron St.; 92 ft. of 2 in. in Clark St. Place; 43½ ft. of 4 in. in Clary St.; 3 ft. of 1½ in., and 218½ ft. of 4 in., in Conlan Court; 234½ ft. of 6 in. in Crescent Ave.; 366½ ft. of 4 in. in Dyke St. (renewal); 20 ft. of 4 in. in Eighth St.; 134 ft. of 12 in. (siphon), and 1,049 ft. of 12 in. in First St.; 53 ft. of 4 in. in Fiske Ave.; 1,060 ft. of 6 in. in Follen St. (renewal); 36 ft. of 4 in. in Garden Court; 3 ft. of 1½ in. and 170 ft. of 4 in. in Hall Place; 210 ft. of 4 in. in Harvard Place (renewal); 3 ft. of 1½ in., and 548½ ft. of 6 in., in

Haskell St.; 3 ft. of 1½ in., and 203 ft. of 4 in., in Hastings Ave.; 245½ ft. of 6 in. in Hovey Nursery St.; 322 ft. of 6 in. in Hubbard Park; 3 ft. of 4 in. in Hurlbut St.; 324 ft. of 6 in. in Huron St.; 972 ft. of 6 in. in Inman St. (renewal); 369 ft. of 6 in. in Kildare St.; 37 ft. of 1¼ in. in Lake View Ave.; 44½ ft. of 6 in. in Lambert Ave.; 733 ft. of 6 in. in Leonard Ave.; 531 ft. of 6 in. in Lexington Ave., Ward I. (high service); 3 ft. of 1½ in. and 157½ ft. of 6 in. in Lexington Ave., Ward V.; 291½ ft. of 6 in. in Line St.; 700 ft. of 6 in. in Magnolia Ave.; 74 ft. of 6 in., and 3,123 ft. of 12 in., in Main St.; 230½ ft. of 6 in. in Martin St.; 3 ft. of 1½ in., and 334 ft. of 6 in., in Mason Ave.; 51 ft. of 4 in. in Mercer Circle; 634 ft. of 6 in. in Mill St. (renewal); 294 ft. of 6 in. in Myrtle Ave.; 345 ft. of 6 in. in Newman St.; 124½ ft. of 2 in. in Niles Place; 1,006 ft. of 8 in., and 24 ft. of 6 in., in Ninth St.; 1,254 ft. of 10 in. (renewal), and 24 ft. of 6 in., in North Ave.; 3,061 ft. of 8 in. (renewal), and 330 ft. of 6 in., in Pearl St.; 26 ft. of 6 in. in Pemberton St.; 100 ft. of 4 in. in Pemberton Court; 679 ft. of 6 in. in Plympton St. (renewal); 1,103 ft. of 6 in. in Prospect St.; 242½ ft. of 6 in. in Raymond St.; 356½ ft. of 6 in. in Sparks St.; 1,185 ft. of 6 in. in Spring St.; 202 ft. of 4 in. in Spruce Court; 1,721 ft. of 8 in. (renewal), and 152 ft. of 6 in., in Thorndike St.; 745½ ft. of 6 in. in Union St. (renewal); 307 ft. of 6 in. in Vine St.; 84 ft. of 12 in. in Walden St. (pipe bridge); 874½ ft. of 6 in. in Walker St.; 122½ ft. of 2 in. in Wallace St. Court; 3 ft. of 1½ in., and 425½ ft. of 4 in., in Wells Place.

Mercer Circle has been connected to the low service; formerly it was supplied from the high service.

For the accommodation of the sewer department, the 6 in. main in Tannery Street was carried over the culvert.

### New Supplies.

Four hundred and twenty-two new supplies have been laid, making the total number laid to date, 11,380.

Sixty-eight supplies have been renewed; of these six were enlarged and two renewed with lead pipe.

Eight supplies have been furnished with sidewalk shut-offs and seven supplies have been extended.

Supplies in the following streets have been connected to the new mains: Austin, Berkeley, Broadway, Buckingham, Craigie, Dyke, Follen, Inman, Mill, Pearl, Plympton, Prospect, Spring, Union, Thorndike and Vine Streets; and in Third Street the supplies have been connected to the 12 in. main, the 4 in. having been abandoned.

The supplies in Essex Street have been carried over the sewer.

The supplies at corner of Eighth and Thorndike Streets have been carried around the cesspool.

### Leakage.

Six hundred and eighty-six leaks have been stopped; namely, four on 4 in. mains, four on 6 in. mains, two on 8 in. mains, one on 10 in. main, three on 12 in. mains, one on 20 in. main, one on 24 inch main, fifty-five on supplies in streets, and six hundred and fifteen on premises; of these six hundred and eight were reported by inspectors found while canvassing, and were repaired by owner or occupant.

A general inspection of pipes and fixtures has been made.

### Drinking Fountains.

Three new drinking fountains have been set this year: one sidewalk fountain in Lechmere Square, one drinking fountain in Davis Square near Porter's Station, and one drinking fountain at the junction of Webster Avenue and Winsor Street, which was presented to the city by Mr. E. H. Norton.

There are nineteen in use.

### Standpipes for Street Watering.

No addition to the number of street-watering standpipes has been made by this department.

One on Craigie Street, at the corner of Sparks Street, has been disconnected from the high service and connected to the low service.

### Gates.

All the gates have been inspected and are in good condition.

In addition to the gates reported with the main pipes, the following gates have been set in places of old ones removed: At the corner of Webster Avenue and Clark Street, one 3 in. was removed and one 3 in. set; in Berkeley Street, one 4 in. was removed and one 6 in. set; in Buckingham Street, one 3 in. was removed and one 6 in. set.

Two 6 in. gates have been set for the West End Street Railway Company in North Street.

The gate at corner of Craigie and Sparks Streets has been filled in, a new one having been set very near this location.

### Boxes.

Nine hydrant, ten iron, and eleven wooden boxes, making a total of thirty, have been set in place of worthless ones removed.

### Check Valves.

One 6 in. check valve has been set in Lexington Avenue, Ward I. No other addition has been made. The 4 in. check valve at corner of Parker and Buckingham Streets has been re-located in Buckingham Street near Parker Street.

### High Service.

Five hundred and thirty-one feet of 6 in. pipe in Lexington Avenue, Ward I., and one hundred and forty-nine feet of 4 in. in Broadway, are the only extensions of high service mains that have been laid this year.

### Meters.

The number of meters in use at this date, November 30, is two hundred and eighty-seven.

The location of the 6 in. Rotary meter at the Prison Point Street yard of the Boston & Maine Railroad has been changed in order to facilitate the removing and testing of this important meter.

### Hydrants.

Fifty-four Chapman and one Perkins hydrant have been added during the year; the total number in use is 747.

Old flush hydrants at Fourth and Thorndike Streets and at Spruce and Haskell Streets have been removed; and at the corner of Craigie and Sparks Streets the old flush hydrant has been filled in, it being considered too expensive work to cut it out in its worthless condition.

Old flush hydrants have been removed, and new Chapman posts set in their places in the following locations: Hubbard Ave., corner of Raymond St.; Hubbard Ave., near Walden St.; Inman St., opposite Summer St.; Highland Ave.; Pearl St., corner of Auburn St.; Cottage St., corner of Pearl St.; Putnam Ave., corner of Pearl St.; Banks St., corner of Flagg St.; Banks St., corner of Sand St.; Thorndike St., corner of Fifth St.; Washington and Portland Sts.; Spring and Third Sts.; Plympton and Mill Sts.; and Charles and Fifth Streets (on account of a leak).

One Chapman post was removed and a Coffin post hydrant set in its place at corner of Vine and Third Streets.

The hydrant at corner of Fifth and Bent Streets has been located at corner of Bent and Fifth Streets for the accommodation of the George F. Blake Mfg. Co.

The hydrant at corner of Lexington Avenue and Huron Street has been moved on account of the change in line of Huron Street.

The hydrant at corner of North Avenue and Haskell Street has been set on Haskell Street, corner of North Avenue.

The Chapman hydrant at Albany and Front Streets has been re-set at same location.

The following hydrants are located on private premises:

| LOCATION. | Flush. | Post. |
|---|---|---|
| American Rubber Company | | 1 |
| Boston & Maine Railroad Company | 4 | 3 |
| Boston Woven Hose Company | | 1 |
| Houghton & Company | 2 | 2 |
| Maverick Oil Works | | 1 |
| Mt. Auburn Corporation | 1 | |
| North & Company | | 1 |
| Page, George G., & Company | | 1 |
| Street Department, Brewer Street | | 1 |
| Street Department, Tremont Street | | 1 |
| West End Street Railway Company | | 1 |

## List of Meters in use Nov. 30, 1892.

| Meter. | Location. | Size Inch. | Kind. |
|---|---|---|---|
| Alghieri, Simon | Main St | ¾ | Worthington. |
| American Net and Twine Co | Third St | 2 | " |
| American Rubber Co | Potter St | 4 | Union. |
| Andrews, D. H. | Ninth St | 1½ | " |
| Andrews, Dr. R. R. | Potter St | ⅝ | Crown. |
| Avon Home | Mt. Auburn St | 1½ | Worthington. |
| Barbour, Stockwell & Co | Broadway | 2 | " |
| " " " | Davis St | 2 | Hersey. |
| Bay State Brick Co | Spruce St | 1½ | Union. |
| Bay State Distilling Co | Cambridge St | 2 | Worthington. |
| Bell, J. S | Hampshire St | ⅝ | " |
| Bird, H. M | Broadway | ⅝ | Union. |
| Blake, George F. Mfg. Co | Pinney St | 2 | " |
| " " " " | Third St | 2 | Crown. |
| " " " " | Third St | ¾ | Worthington. |
| " " " " | Third St | 2 | Hersey. |
| Blake, Irving W | Church St | 1 | Worthington. |
| " " " | Church St | 1 | Crown. |
| B. & M. R. R., Car house | Prison Point St | 2 | Worthington. |
| " " Filling locomotives | Prison Point St | 6 | Union. |
| " " Hoisting engines | Prison Point St | 1 | Crown. |
| " " Paint house | Prison Point St | 1 | Worthington. |
| " " Repair shops | Bridge St | 2 | " |
| " " Round house | Prison Point St | 2 | " |
| " " " " | Prison Point St | 3 | Frost. |
| " " " " new | Prison Point St | 3 | Union. |
| Boston Curling Club | Lexington Ave | 1 | Worthington. |
| Boston Ice Co | Prison Point St | 1½ | Union. |
| Boston Stamping Co | Third St | 1½ | " |
| Boston Woven Hose Co | Hampshire St | 4 | Worthington. |
| Bragdon & Cooper | Frank St | ⅝ | " |
| Brewer, Thomas | Brattle St | ¾ | " |
| Brown, L. S | Hampshire St | 1½ | Crown. |
| Bullock, O. S. | Broadway | ¾ | Worthington. |
| Burton, A. & E. | Harvard St | ¾ | " |
| Buxton, George H. & Co. (stable) | Inman Sq | ¾ | Crown. |
| Cambridge Baking Co | Green St | 1½ | Worthington. |
| Cambridge Brass Co | Cedar St | ¾ | Union. |
| Cambridge Electric Light Co | Albro St | 4 | Worthington. |
| Cambridge Gas Light Co | Ash St | ¾ | " |
| " " " " | Third St | 1 | " |
| " " " " | Third St | 2 | " |
| Cambridge Hospital | Mt. Auburn St | 1½ | Crown. |
| Cambridge Y. M. C. Association | Main St | 1½ | Union. |
| Cambridgeport Diary Co | Blackstone St | 1½ | " |
| Campbell, Wm. & Co | Potter St | 2 | Worthington. |
| Carr Bros | Lopez St | 1 | " |
| Catholic Y. M. C. Association | Prospect St | ⅝ | " |
| City of Cambridge (Fountain) | Brattle and Craigie Sts | ⅝ | Metropolitan. |
| " " " | Brattle Sq | ¾ | Thomson. |
| " " " | Central Sq | ⅝ | Duplex. |
| " " " | Lechmere Sq | ⅝ | Crown. |
| " " " | North Ave | ⅝ | Terry. |
| Chadwick Lead Works | North St | 1 | Worthington. |
| Champlin, E. R | Main St | 1 | Crown. |
| Chelmsford Foundry Co | Bridge St | ¾ | Worthington. |
| Clark, B. P. & Co | Main St | 1½ | Hersey. |
| Clark, Miss M. E. (gymnasium) | Beech St | ¾ | Crown. |
| Clarke Coffee Co | Reed St | 1½ | Worthington. |
| Close, George | Broadway | 1 | " |
| Cochrane Chemical Co | Potter St | 2 | " |
| Cofran, N. M. | Concord Ave | 1½ | Thomson. |
| Coleman Bros | Broadway | 1 | Worthington. |
| Coolidge & Caswell | Franklin St | 2 | Hersey. |
| Coolidge, J. G. (barn) | Coolidge Ave | 2 | Worthington. |
| " " (greenhouse) | Coolidge Ave | 1 | " |

## List of Meters — *continued.*

| Meter. | Location. | Size Inch. | Kind. |
|---|---|---|---|
| Cushman Bros. & Co. | Blanche St. | ¾ | Worthington. |
| Cushing Process Co | Clark St | ⅝ | Crown. |
| Dailey, C. W | Cambridge St | 1 | Worthington. |
| Damon Safe and Iron Works | Main St | 2 | Hersey. |
| " " " " " | Main St | 1 | Worthington. |
| Daniels, Badger & Co | Albany St | 2 | Crown. |
| Davenport, A. H. | Cambridge St | 2 | Worthington. |
| " " | Otis St | ⅝ | Crown. |
| Davis, Curtis & Co. | Harvard St | 1½ | Worthington. |
| " " " | Harvard St | 6 | Union. |
| " " " | Broadway | 2 | Worthington. |
| Davis, J. C. & Co | Broadway | 4 | " |
| " " " | Magazine St | 1 | " |
| Dee, Thomas W | Fresh Pond Lane | 2 | Hersey. |
| Derby, H. | Main St | 1 | Union. |
| DeRosay, D. Warren | Dublin St | ¾ | Worthington. |
| Dolan, John | Decatur St | ⅝ | Crown. |
| Dover Stamping Co | Pleasant St | 6 | Union. |
| Dow, J. C. & Co | Portland St | 2 | Crown. |
| " " " | Portland St | 1 | Worthington. |
| Downing, Theo | Eustis Ct | 1 | " |
| Doyle, W. E. | Cambridge St | 1½ | Union. |
| Dow, E. A. | Deacon St | 1 | Worthington. |
| East Cambridge Club (stable) | First St | 1 | " |
| Ellis, S. R. (stable) | Oxford St | ¾ | " |
| Episcopal Theological Seminary | Brattle St | 1½ | " |
| Fabyan, J. E. | Ellery St | ¾ | " |
| Fairbanks, Mrs. M. J. (stable) | Norfolk St | 1 | " |
| Farnsworth, T. H | North Ave | 1 | " |
| Flatley, Rev. J. | Spruce St | 1 | " |
| Fletcher, C. R | Osborn St | ¾ | Crown. |
| Flintze, E | Otis St | 1½ | Thomson. |
| Furfey, James | Brookline St | ⅝ | Worthington. |
| Gillon, Mrs. | Farwell Pl | 1 | " |
| Goepper Bros. | Ninth St | 1½ | " |
| " " | Spring St | 2 | " |
| Gwynne & Co | Brattle St | 1 | Crown. |
| Harvard College, Annex | Mason St | ⅝ | Union. |
| " " " | Garden St | 2 | Frost. |
| " " Boat house | DeWolf St | ¾ | Thomson. |
| " " " " (Weld) | Boylston St | 2 | Hersey. |
| " " Botanic Garden | Garden St | 1 | Crown. |
| " " Boylston Hall | College grounds | 2 | " |
| " " " " | College grounds | 2 | Hersey. |
| " " Gore Hall | College grounds | 1 | Worthington. |
| " " Carey Building | Oxford St | 2 | " |
| " " Gymnasium | Kirkland St | 2 | Union. |
| " " Harvard Hall | Peabody St | 2 | " |
| " " Hastings Hall | North Ave | 2 | Hersey. |
| " " Holworthy Hall | College grounds | ⅝ | Worthington. |
| " " Holyoke building | Harvard St | 2 | " |
| " " Holmes Field | North Ave | 2 | Union. |
| " " In yard | College grounds | 1½ | Worthington. |
| " " Jefferson Phys. Lab. | Holmes Field | 1½ | Crown. |
| " " Jarvis' Field | Everett St | ⅝ | Worthington. |
| " " Lawrence Sci. School | Kirkland St | ¾ | " |
| " " Law School | Holmes Field | 1 | " |
| " " Agassiz Museum | Divinity Ave | 1 | " |
| " " " " | Divinity Ave | 1½ | " |
| " " Memorial Hall | Cambridge St | 2 | " |
| " " Sever Hall | College grounds | ¾ | " |
| " " Stoughton Hall | College grounds | 1½ | Hersey. |
| " " Thayer Hall | College grounds | 1½ | Worthington. |
| " " Tennis grounds | Everett St | 1½ | " |
| " " " " | Oxford St | ⅝ | Union. |
| " " University Hall | College grounds | 2 | " |
| Harvard Piano Co | Main St | ¾ | " |
| Hale, Aaron | Elm St | ¾ | Thomson. |
| Hannum, L. M. | Green St | 1 | Worthington. |
| Hawkins Machine Co | First St | 1 | " |
| Hazen, D. M | Elm St | 1 | " |
| Hayward Confectionery Co | Main St | 1 | " |
| Hews, A. H. & Co | Crescent Ave | 1 | " |

## List of Meters — *continued.*

| Meter. | Location. | Size. Inch. | Kind. |
|---|---|---|---|
| Hews, A. H. & Co | Walden St | 1½ | Worthington. |
| Hersey, Ira G | Broadway | 1½ | " |
| Hilton, J. M | Harvard St | 1½ | Hersey. |
| Holt & Bugbee | East St | ¾ | Worthington. |
| Holton, F. H. & Co | Harvard St | 2 | " |
| Horgan, J. H | Main St | ¾ | Union. |
| Houghton, H. O. & Co | Blackstone St | ⅝ | Crown. |
| " " " | Blackstone St | 2 | Worthington, |
| Howe, David | Distillhouse St | 2 | Crown. |
| Ivers & Pond. No. 1 | Main St | 2 | Worthington. |
| " " No. 2 | Albany St | 2 | Crown. |
| " " Engine room | Albany St | 2 | Union. |
| Irving & Casson | Otis St | 1 | Worthington. |
| Jones, C. L | Pearl St | ¾ | Ball & Fitts. |
| Keeler & Co | Thorndike St | 2 | Union. |
| Kemlo, D. E | Third St | 1 | Worthington. |
| Kemp, L. & Sons | Davis St | 2 | " |
| Kendall & Sons, Boiler shop | Main St | 1 | " |
| " " Engine room | Main St | ¾ | " |
| " " | Main St | 2 | Union. |
| Kennedy, Frank A. (pump) | Main St | ¾ | Thomson. |
| Kerr, Ropes & Crowell | Bridge St | 2 | Worthington. |
| Lake & Moynahan | Main St | ¾ | Crown. |
| Lamb & Ritchie | Albany St | 1 | " |
| Laminar Fibre Co | Tannery St | 2 | Worthington. |
| Linehan, Charles | Bridge St | 1 | Crown. |
| " " | Bridge St | ⅝ | Union. |
| Little, Brown & Co | Blackstone St | ¾ | Thomson. |
| Mason & Hamlin Organ and Piano Co. | Broadway | 2 | Hersey. |
| Maverick Oil Works | Sixth St | 2 | " |
| McDonald, Patrick | Charles St | ¾ | Frost. |
| McLeod, Wm. G | Elm St | 1 | Worthington. |
| Middlesex County House of Correct'n | Second St | 2 | " |
| " " " " | Spring St | 4 | Union. |
| " " Court House | Otis St | 1 | Crown. |
| " " " " | Thorndike St | 1 | Worthington. |
| " " Registry of Deeds. | Otis St | 1½ | " |
| Middlesex Bleachery & Dye Works | Sacramento St | 1 | " |
| Milan, Alex | Brattle St | ⅝ | Crown. |
| Miller & Shaw | Broadway | 1 | Worthington. |
| Miller & Sons | Gore St | ¾ | Frost. |
| Moring, Est. of A. L | Main St | 1 | Hersey. |
| Morss & Whyte | Auburn St | 4 | Crown. |
| Moulton, C. W. H | Gore St | ¾ | Worthington. |
| Mt. Auburn Corporation Cemetery | Mt. Auburn St | ⅝ | Desper. |
| " " " Greenhouse | Brattle St | 2 | Hersey. |
| " " " | Coolidge Ave | 4 | Worthington. |
| Murdock, W. H | Griggs St | ⅝ | Ball & Fitts. |
| McNamee, J. H. H | Main St | 2 | Hersey. |
| McNamee, John & Sons | Mt. Auburn St | ⅝ | Worthington. |
| National Linseed Oil Co | Fifth St | 1 | " |
| New England Dredging Co | Front St | 4 | Crown. |
| New England Stone Co | Main St | ¾ | Worthington. |
| New York Biscuit Co | Franklin St | 1½ | Union. |
| " " " | Franklin St | 2 | " |
| " " " | Green St | 2 | " |
| " " " | Green St | 3 | Worthington. |
| Norcross Bros | Brookline St | 1½ | Union. |
| Norton, George W | Distillhouse St | 1 | Worthington. |
| O'Brien, John F | Coolidge Ave | ¾ | " |
| Oliver, G. R | Main St | ¾ | Crown. |
| Orr, Rev. Wm | Arrow St | 1 | Worthington. |
| Page, G. G. Box Co | Hampshire St | 2 | " |
| " " " | Hampshire St | 4 | Union. |
| Page, Carlos | Broadway | 1½ | Worthington. |
| Paige & Co | Bridge St | ¾ | Crown. |
| Parry Bros | Raymond St | ¾ | Worthington. |
| Porcellian Club | Harvard St | 1 | Hersey. |
| Phillips Bros & Co | Main St | ¾ | Worthington. |
| Place, Charles | Norfolk St | 1½ | " |
| Plymouth Rock Pants Co | Binney St | 1 | " |
| Purcell, H | Main St | ⅝ | " |
| Quinn, John | Otis St | 1½ | Union. |

## List of Meters — *continued.*

| Meter. | Location. | Size Inch. | Kind. |
|---|---|---|---|
| Rawson & Morrison | Main St | ¾ | Union. |
| Reardon, John, Sons | Waverly St | 4 | Worthington. |
| Revere Sugar Refinery | Water St | 3 | Union. |
| " " " | Water St | 3 | " |
| Reversible Collar Co | Mt. Auburn St | 1½ | Frost. |
| Rideout, M. E | State St | 1 | Worthington. |
| Riverside Boiler Works | Harvard St | 1 | " |
| Roberts Iron Works Co | Main St | 1½ | Crown. |
| Roberts, O. P | Brattle St | 1 | Worthington. |
| Rogers, heirs of George M | Washington St | 3 | " |
| Rutherford, R. J | First St | 1 | Crown. |
| Sands, M. W | Dublin St | ⅝ | " |
| " " | Dublin St | ⅝ | Union. |
| Salvation Army | Prospect St | ¾ | Worthington. |
| Shaw, A. B. & E. L | Otis St | ¾ | " |
| Shales, G. W | Gore St | ⅝ | " |
| Shorey, Geo. L | Kinnaird St | 4 | Union. |
| Smart, D. C | Main St | 2 | Worthington. |
| Somers, Adolph | First St | 2 | Crown. |
| Spaulding Cable Works | Main St | ⅝ | Union. |
| Speare's, S. Alden Sons & Co | Rogers St | 1½ | Worthington. |
| " " " (laundry) | Binney St | 3 | " |
| Squire, John P. & Co | Gore St | 1 | " |
| " " " | Gore St | 2 | " |
| " " " | Gore St | 4 | Union. |
| " " " | Gore St | 6 | Gem. |
| St. Mary's Catholic Church | Norfolk St | 2 | Worthington. |
| St. Peter's Catholic Church | Concord Ave | 2 | Union. |
| St. Paul's Catholic Church | Mt. Auburn St | 2 | " |
| Storr, D. C. Furniture Co | Thorndike St | ¾ | Worthington. |
| " " " " | First St | ¾ | Metropolitan. |
| Sullivan, Mrs | Farwell Pl | 1 | Worthington. |
| Teele, Frank H | Lincoln Ct | ¾ | " |
| Thayer, Henry & Co | Broadway | 2 | " |
| Tower, S. & Son | Broadway | 2 | " |
| Tracy, M. F | Boylston St | ¾ | " |
| Underhill & Anderson | First St | 1½ | " |
| " " | First St | 2 | Union. |
| Union Glass Co | Webster Ave | ⅝ | Worthington. |
| " " " | Webster Ave | 1 | " |
| Vannier, Jos | Columbia St | 1 | " |
| Warren, J. H., Felton Hall | Cambridge St | 1 | " |
| West End St. Ry. Co., Carhouse | Cambridge St | 1 | Balance Valve. |
| " " " | Dunster St | ¾ | Worthington. |
| " " new " | Murray St | 1 | " |
| " " El. " | Murray St | 1 | " |
| " " El. power house | North St | 2 | " |
| " " " " " | North St | 3 | " |
| " " Office | Harvard Sq | ¾ | Crown. |
| " " Paint Shop | Dunster St | 1 | Worthington. |
| " " Repair shop | Dunster St | 1 | " |
| " " Stable. | Baldwin St | 1 | " |
| " " " | Brookline St | 1 | " |
| " " " | Cambridge St | 1 | " |
| " " " | Cambridge St | 1 | " |
| " " " | Dunster St | 1 | " |
| " " " | Dunster St | ¾ | Hersey. |
| " " " | Main St | 2 | Worthington. |
| " " " | Mt. Auburn St | 2 | Crown. |
| " " " | North Ave | 2 | Worthington. |
| " " " | Murray St | 1½ | " |
| " " " | River St | 1 | " |
| " " Washing cars | Murray St | 1 | Ball & Fitts. |
| " " Waiting room | Main St | ⅝ | Worthington. |
| " " " | Bridge St | ⅝ | Union. |
| Weitze, Rob't | Eighth St | ¾ | " |
| " " | Thorndike St | 1 | Worthington. |
| Whitney, H. W | Main St | ⅜ | Crown. |
| Wight & Scorgie | Mt. Auburn St | ¾ | " |
| Wilcox, David | Davis St | 2 | Frost. |
| Wilkins, W. & Co | Earl St | ⅝ | Terry. |
| Williams, H. A. Mfg. Co | Otis St | ⅝ | Worthington. |
| Wilson's, John, Sons | Brattle Sq | 1½ | Hersey. |
| Woods, J. M. & Co | Bridge St | 1½ | Worthington. |
| Zereza, J. P | State St | ⅝ | " |

### List of Drinking Fountains Nov. 30, 1892.

Brattle Street, junction of Craigie Street.
Brattle Street, east side, at Brewer's Block.
Bridge Street, junction of Cambridge Street.
Broadway, corner of Norfolk Street.
Central Square, east side.
Central Square, west side.
Davis Square, North Avenue.
Garden Street, at Washington Elm.
Hampshire Street, junction of Broadway.
Harvard Square, at the flagstaff.
Inman Square, east side.
Lechmere Square.
Main Street, junction of Broadway.
Main Street, junction of Mt. Auburn Street.
Mt. Auburn Street, corner of Coolidge Avenue.
North Avenue, at Igo's.
North Avenue, corner of Walden Street.
Putnam Avenue, corner of Brookline Street.
Webster Avenue and Windsor Streets.

### List of Standpipes for Street Watering Nov. 30, 1892.

Bow Street, at angle.
Boylston Street.
Brattle Street, near University Press.
Brattle Street, near Fayerweather Street.
Brattle Street, near Fresh Pond Lane.
Brattle Street, corner of Sparks Street.
Bridge Street, junction of Cambridge Street.
Broadway, junction of Hampshire Street.
Broadway, corner of Sixth Street.
Broadway, near Third Street.
Broadway, corner of Windsor Street.
Brookline Street, corner of Putnam Avenue.
Cambridge Street, corner of Baldwin Street.
Cambridge Street, at Inman Square.
Cambridge Street, near Warren Street.
Cambridge Street, near Windsor Street.
Columbia Street, near Austin Street.

Concord Avenue, near Wyeth Street.
Coolidge Avenue, opposite entrance to Mt. Auburn Cemetery.
Dana Street, corner of Chatham Street.
Fresh Pond Avenue, opposite Vassal Lane.
Garden Street, opposite Linnæan Street.
Gore Street, west from Third Street.
Green Street, near Western Avenue.
Inman Street, near Broadway.
Kirkland Street, near Quincy Street.
Main Street, near Hancock Street.
Main Street, near Portland Street.
Magazine Street, opposite Warland Street.
Mt. Auburn Street, near Athens Street.
Mt. Auburn Street, corner of Coolidge Avenue
Mt. Auburn Street, near Willard Street.
Norfolk Street.
North Avenue, near the common.
North Avenue, near Beech Street.
North Avenue, near Roseland Street.
North Avenue, near Spruce Street.
North Avenue, corner of Norris Street.
North Avenue, opposite Hudson Street.
North Avenue, opposite Tannery Street.
Oxford Street, near Sacramento Street.
Prison Point Street, opposite round house.
Putnam Avenue, opposite school house.
River Street, near Putnam Avenue.
Sixth Street, near Thorndike Street.
Spruce Street, corner of Cedar Street.
Third Street, near Rogers Street.
Thorndike Street, near Third Street.
Walden Street, corner of Mt. Pleasant Street.
Washington Avenue, near Lambert Avenue.
Waterhouse Street, near the common.
Watson Street, corner of Brookline Street.
Western Avenue, corner of Howard Street.

## Main Pipe Laid, Number of Gates and Fire Hydrants.

| Location. | Iron Pipe. | | Gates. | | Hydrants. | |
|---|---|---|---|---|---|---|
| | Length | Size. | No. | Size. | No. | Size. |
| | Feet. | Inch. | | Inch. | | Inch. |
| Allston Street, cor. Pearl Street | .. | .. | 2 | 6 | .. | 6 |
| Auburn Street, cor. Pearl Street | .. | .. | 2 | 8 | .. | " |
| Austin Street, cor. Prospect Street | .. | .. | 1 | 6 | .. | " |
| Bacon Court | 200 | 2 | .. | .. | .. | " |
| Banks Street | 73 | 6 | .. | .. | 1 | " |
| Beech Street | 155½ | 6 | .. | .. | .. | " |
| Belmont Street | 192 | 6 | .. | .. | .. | " |
| Bent Street | 60 | 8 | .. | .. | .. | " |
| Berkeley Street Place | 3 | 1½ | .. | .. | .. | " |
| Berkeley Street Place | 240 | 4 | 1 | 4 | .. | " |
| Berkeley Street, renewal | 253 | 6 | 1 | 6 | .. | " |
| Berkeley Street, near cor. Craigie Street | 7 | 6 | .. | .. | 1 | " |
| Broadway, high service | 149 | 4 | .. | .. | .. | " |
| Brookline Street, cor. Main Street | .. | .. | 1 | 8 | .. | " |
| Buckingham Street, renewal | 77 | 6 | 1 | 6 | .. | " |
| Cambridge St. bet. Oak and Prospect Sts. | 38 | 6 | .. | .. | 1 | " |
| Cameron Street | 3 | 1½ | .. | .. | .. | " |
| Cameron Street | 497½ | 6 | 1 | 6 | 1 | " |
| Central Square | 7 | 6 | 1 | 6 | .. | " |
| Chestnut Street, cor. Pearl Street | 6 | 6 | .. | .. | 1 | " |
| Clark Street Place | 92 | 2 | .. | .. | .. | " |
| Clary Street | 43½ | 4 | .. | .. | .. | " |
| Conlan Court | 3 | 1½ | .. | .. | .. | " |
| Conlan Court | 218½ | 4 | 1 | 4 | .. | " |
| Creighton Street, near Fitchburg R. R. | 7 | 6 | .. | .. | 1 | " |
| Crescent Avenue | 234½ | 6 | 1 | 6 | 1 | " |
| Crescent Avenue, cor. Walden Street | .. | .. | .. | .. | 1 | " |
| Decatur Street | .. | .. | 1 | 6 | .. | " |
| Dyke Street, cor. DeWolf Street | .. | .. | 1 | 4 | .. | " |
| Dyke Street, cor. Plympton St., renewal | 366½ | 4 | 2 | 4 | .. | " |
| Eighth Street, cor. Thorndike Street | .. | .. | 1 | 6 | .. | " |
| Eighth Street, cor. Spring Street | 20 | 4 | 1 | 4 | .. | " |
| Erie Street, cor. Pearl Street | .. | .. | 1 | 6 | .. | " |
| Fifth Street, cor. Thorndike Street | .. | .. | 2 | 6 | .. | " |
| First Street, siphon | 134 | 12 | 2 | 12 | .. | " |
| First Street, from Main Street | 1,049 | 12 | 1 | 12 | 1 | " |
| Fiske Avenue | 53 | 4 | .. | .. | .. | " |
| Follen Street, renewal | 1,060 | 6 | 2 | 6 | 1 | " |
| Follen Street, at angle | .. | .. | .. | .. | 1 | " |
| Fourth Street, cor. Thorndike Street | .. | .. | 2 | 6 | .. | " |
| Franklin Street, cor. Pearl Street | .. | .. | 2 | 6 | 1 | " |
| Garden Court | 36 | 4 | .. | .. | .. | " |
| Granite Street, cor. Pearl Street | 7 | 6 | .. | .. | 1 | " |
| Hall Place | 3 | 1½ | .. | .. | .. | " |
| Hall Place | 170 | 4 | 1 | 4 | .. | " |
| Hamilton Street, cor. Pearl Street | .. | .. | 1 | 6 | 1 | " |
| Harvard Place, renewal | 210 | 4 | 1 | 4 | .. | " |
| Haskell Street | 3 | 1½ | .. | .. | .. | " |
| Haskell Street | 548½ | 6 | 2 | 6 | 1 | " |
| Hastings Avenue | 3 | 1½ | .. | .. | .. | " |
| Hastings Avenue | 203 | 4 | 1 | 4 | .. | " |

## Main Pipe Laid, Number of Gates and Fire Hydrants.

| Location. | Iron Pipe. | | Gates. | | Hydrants. | |
|---|---|---|---|---|---|---|
| | Length | Size. | No. | Size. | No. | Size. |
| | Feet. | Inch. | | Inch. | | Inch. |
| Hovey Nursery Street | 245½ | 6 | 1 | 6 | 1 | 6 |
| Hubbard Park | 322 | 6 | .. | .. | 1 | " |
| Hurlbut Street | 3 | 4 | 1 | 4 | .. | " |
| Huron Street | 3 | 1½ | .. | .. | .. | " |
| Huron Street, cor. Fayerweather Street | 8 | 6 | .. | .. | 1 | " |
| Huron Street | 316 | 6 | 1 | 6 | .. | " |
| Inman Street, renewal | 972 | 6 | 1 | 6 | 2 | " |
| Kildare Street | 369 | 6 | 2 | 6 | .. | " |
| Lake Street, cor. Pearl Street | .. | .. | 1 | 6 | .. | " |
| Lake View Avenue | 37 | 1¼ | .. | .. | .. | " |
| Lambert Avenue | 44½ | 6 | 1 | 6 | .. | " |
| Lawrence Street | .. | .. | 1 | 6 | .. | " |
| Leonard Avenue | 733 | 6 | 2 | 6 | 1 | " |
| Lexington Avenue, Ward 1, high service | 531 | 6 | .. | .. | 2 | " |
| Lexington Avenue, Ward 5 | 3 | 1½ | .. | .. | .. | " |
| Lexington Avenue, Ward 5 | 157½ | 6 | 1 | 6 | .. | " |
| Line Street | 291½ | 6 | .. | .. | .. | " |
| Linnæan Street, cor. North Avenue | .. | .. | 1 | 10 | .. | " |
| Lopez street, cor. Pearl Street | .. | .. | 1 | 6 | .. | " |
| Magnolia Avenue | 700 | 6 | 2 | 6 | 1 | " |
| Main Street | 3,123 | 12 | 3 | 12 | .. | " |
| Main Street | 74 | 6 | .. | .. | 6 | " |
| Martin Street | 230½ | 6 | 1 | 6 | .. | " |
| Mason Avenue | 3 | 1½ | .. | .. | .. | " |
| Mason Avenue | 334 | 6 | 1 | 6 | .. | " |
| Mercer Circle | 51 | 4 | 1 | 4 | .. | " |
| Mill Street, cor. DeWolf Street, renewal | 634 | 6 | 1 | 6 | .. | " |
| Mill Street, cor. Plympton Street | .. | .. | 2 | 6 | .. | " |
| Munroe Street, cor. First Street | .. | .. | .. | .. | 1 | " |
| Myrtle Avenue | 294 | 6 | 1 | 6 | .. | " |
| Newman Street | 345 | 6 | 1 | 6 | 1 | " |
| Niles Place | 124½ | 2 | .. | .. | .. | " |
| Ninth Street | 1,006 | 8 | .. | .. | .. | " |
| Ninth Street | 24 | 6 | .. | .. | 3 | " |
| North Avenue, cor. Linnæan Street | 14 | 6 | .. | .. | 1 | " |
| North Avenue, near Lancaster Street | 14 | 6 | .. | .. | 1 | " |
| North Avenue, renewal | 1,254 | 10 | .. | .. | .. | " |
| Pearl Street, renewal | 3,061 | 8 | 8 | 8 | .. | " |
| Pearl Street | 330 | 6 | .. | .. | 2 | " |
| Pemberton Street | 26 | 6 | 1 | 6 | .. | " |
| Pemberton Court | 100 | 4 | .. | .. | .. | " |
| Perry Street, cor. Pearl Street | .. | .. | 1 | 6 | .. | " |
| Plympton Street, renewal | 679 | 6 | 2 | 6 | 1 | " |
| Prospect Street, renewal | 1,103 | 6 | 2 | 6 | 3 | " |
| Raymond Street | 242½ | 6 | 1 | 6 | .. | " |
| Seventh Street, cor. Thorndike Street | .. | .. | 1 | 6 | .. | " |
| Sixth Street, cor. Thorndike Street | .. | .. | 2 | 6 | .. | " |
| Sixth Street, cor. Spring Street | .. | .. | 1 | 6 | .. | " |
| Sparks Street, cor. Brattle Street | 356½ | 6 | 1 | 6 | 1 | " |
| Spring St., Third to Fourth Sts., renewal | 560 | 6 | 4 | 6 | 1 | " |
| Spring St., Sixth to Ninth Sts., renewal | 625 | 6 | 2 | 6 | 1 | " |

## Main Pipe Laid, Number of Gates and Fire Hydrants.

| Location. | Iron Pipe. | | Gates. | | Hydrants. | |
|---|---|---|---|---|---|---|
| | Length | Size. | No. | Size. | No. | Size. |
| | Feet. | Inch. | | Inch. | | Inch. |
| Springfield Street, cor. Cambridge St. | .. | .. | 1 | 6 | .. | 6 |
| Spruce Court | 202 | 4 | 1 | 6 | .. | " |
| Summer Street, cor. Inman Street | .. | .. | 1 | 6 | .. | " |
| Thorndike Street, renewal | 1,721 | 8 | 4 | 8 | .. | " |
| Thorndike Street | 152 | 6 | .. | .. | 3 | " |
| Tufts Street, cor. Pearl Street | 6 | 6 | .. | .. | 1 | " |
| Union Street, renewal | 745½ | 6 | 3 | 6 | 3 | " |
| Valentine Street, cor. Pearl Street | .. | .. | 1 | 6 | .. | " |
| Vine Street, cor. Fourth Street, renewal | 307 | 6 | 2 | 6 | 1 | " |
| Walden Street, siphon | 84 | 12 | .. | .. | .. | " |
| Walker Street | 874½ | 6 | 2 | 6 | 1 | " |
| Wallace Street Court | 122½ | 2 | .. | .. | .. | " |
| Wells Place | 3 | 1½ | .. | .. | .. | " |
| Wells Place | 425½ | 4 | 1 | 4 | .. | " |

The short lengths of one and one-half inch pipe mentioned in above statement were used for blow-offs on extensions that were not connected.

## Recapitulation.

| | 12 Inch. | 10 Inch. | 8 Inch. | 6 Inch. | 4 Inch. | 2 Inch. | 1½ Inch. | 1¼ Inch. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| Length in feet of iron pipe | 4,390 | | 1,066 | 8,808 | 2,039 | 414½ | 30 | 37 | 16,784½ |
| Length in feet of iron pipe (renewals) | | 1,254 | 4,782 | 7,015½ | 576½ | | | | 13,628 |
| Number of gates | 6 | 1 | 15 | 72 | 12 | | | | 106 |
| Number of hydrants | | | | 55 | | | | | 55 |

## New Supplies.

| | 8 Inch. | 6 Inch. | 4 Inch. | 2 Inch. | 1½ Inch. | 1¼ Inch. | 1 Inch. | ¾ Inch. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| Length in feet of pipe | 38 | 99 | 332 | 722½ | 488 | 1,460½ | 3,838 | 9,035 | 16,013 |
| Number of supplies | 1 | 4 | 4 | 14 | 6 | 40 | 95 | 258 | 422 |
| Number of stop and waste valves | | | | 14 | 4 | 40 | 94 | 257 | 409 |
| Number of screw cocks | | | | 15 | 6 | 38 | 94 | 257 | 410 |
| Number of sidewalk cocks | | | | | | 39 | 94 | 259 | 392 |
| Number of service boxes | | | | | | | | | 390 |
| Number of boxes, frames, and covers | | | | | | | | | 29 |

## List of Check Valves.

### OLD HIGH SERVICE.

| | Size in Inches. |
|---|---|
| Arlington Street, 230 feet west of North Avenue | 6 |
| Avon Hill and Linnæan Streets | 6 |
| Concord Avenue, 135 feet south from Buckingham Street | 6 |
| Fayerweather and Reservoir Streets | 6 |
| Garden and Linnæan Streets | 6 |
| Lake View Avenue, 150 feet north from Brattle Street | 6 |
| Lake View Avenue, 150 feet north from Huron Street | 10 |
| Mt. Vernon Street, 100 feet west from North Avenue | 6 |
| Mt. Pleasant Street, 150 feet south from Walden Street | 6 |
| Raymond and Linnæan Streets | 6 |

### NEW HIGH SERVICE.

| | Size in Inches. |
|---|---|
| Appian Way, near Brattle Street | 4 |
| Appleton Street | 6 |
| Berkeley Street, near Craigie Street | 4 |
| Bigelow and Main Streets | 6 |
| Broadway, on line of 6 in. pipe crossing College grounds | 6 |
| Buckingham Street, near Parker Street | 4 |
| Clinton and Main Streets | 6 |
| Dana Street, near Main Streets | 4 |
| Dana Street, corner of Broadway | 4 |
| Dublin Street | 6 |
| Hancock Street, corner of Harvard Street, north | 4 |
| Harvard Street, corner of Bigelow Street, east | 10 |
| Harvard and Ellery Streets (two valves) | 6 |
| Harvard and Prescott Streets | 4 |
| Harvard and Trowbridge Streets | 4 |
| Harvard and Ware Streets | 4 |
| Highland Street, on old 12 in. main | 12 |
| Kirkland and Cambridge Streets | 10 |
| Kirkland Street and Frisbie Place | 4 |
| Lee and Harvard Streets | 4 |
| Lee and Main Streets | 4 |
| Lexington Avenue, near Brattle Street | 6 |
| Linnæan and Lancaster Streets (old high service extension) | 6 |
| Madison Street and Concord Avenue | 4 |
| Quincy Street, near Broadway | 4 |
| Waterhouse Street, near small common | 6 |

## Statement of Stock on hand, Nov. 30, 1892.

WROUGHT IRON FITTINGS.

| | 6 in. | 4 in. | 3 in. | 2½ in. | Total. |
|---|---|---|---|---|---|
| Bushings | 2 | 3 | 5 | 2 | 12 |
| Couplings | ..... | 2 | ..... | ..... | 2 |
| Elbows | 2 | 9 | 6 | 3 | 20 |
| Flanges | 2–4 | | | | |
| Flanges | 2–2 | 1 | ..... | ..... | 5 |
| Pipe, in feet | ..... | 20 | 7 | ..... | 27 |
| Plugs | ..... | 5 | 5 | 2 | 12 |
| Nipples | 2 | 15 | 8 | 5 | 30 |
| Reducing couplings | 2 | 5 | ..... | 6 | 13 |
| Tees | ..... | 2 | 2 | ..... | 4 |

FOR SUPPLIES (GALVANIZED PIPE AND FITTINGS, AND BRASS FITTINGS).

| | 2 in. | 1½ in. | 1¼ in. | 1 in. | ¾ in. | ½ in. | |
|---|---|---|---|---|---|---|---|
| Air chambers | ..... | ..... | ..... | 48 | 80 | 44 | .. |
| Bushings and reducing couplings | 139 | 86 | 91 | 54 | 14 | 2 | .. |
| Caps and plugs | 44 | 22 | 39 | 32 | 61 | 10 | .. |
| Chapman drip valves | 33 | 14 | 7 | 81 | 89 | .... | .. |
| Check valves | 7 | 2 | 1 | 6 | 2 | .... | .. |
| Couplings | 29 | 62 | 34 | 105 | 100 | 5 | .. |
| Crosses | 23 | 12 | 19 | 17 | 10 | .... | .. |
| Driving cocks, threaded | ..... | ..... | ..... | 32 | 12 | .... | .. |
| Elbows | 60 | 39 | 27 | 70 | 70 | 5 | .. |
| Faucets | ..... | ..... | ..... | 11 | 6 | 3 | .. |
| Fountain cocks | ..... | ..... | ..... | ..... | 11 | .... | .. |
| Goose-necks for blow-offs | 1 | 3 | ..... | 1 | ..... | .... | .. |
| Hose nipples | ..... | ..... | ..... | 10 | 4 | .... | .. |
| Hydrant cocks | ..... | 25 | ..... | 5 | 10 | .... | .. |
| Lead connections | ..... | ..... | 1 | 16 | 10 | .... | .. |
| Lead connecting unions | ..... | ..... | ..... | 11 | 16 | .... | .. |
| Nipples | 60 | 62 | 82 | 167 | 115 | 5 | .. |
| Off sets | 6 | ..... | ..... | ..... | ..... | .... | .. |
| Pipe, galvanized, in feet | 1,240 | 600 | 1,840 | 2,840 | 4,540 | .... | .. |
| Screw cocks | 60 | 33 | 54 | 43 | 90 | .... | .. |
| Screw cocks for cement pipe | ..... | 4 | ..... | 11 | ..... | .... | .. |
| Self-closing fountain faucets | ..... | ..... | ..... | ..... | ..... | 8 | .. |
| Sidewalk cocks | ..... | ..... | 34 | 88 | 112 | .... | .. |
| Sill cocks | ..... | ..... | ..... | ..... | 9 | ... | .. |
| Sill valves, nickel-plated | ..... | ..... | ..... | ..... | 2 | .... | .. |
| Socket ends of rod | ..... | ..... | ..... | ..... | ..... | .... | 8 |
| Street elbows | ..... | ..... | ..... | 69 | 33 | .... | .. |
| Stop and waste cocks | 8 | 12 | 1 | 10 | 2 | .... | .. |
| Stop and wastes for flush hydrants | ..... | ..... | ..... | ..... | ..... | 29 | .. |
| Tees | 21 | 29 | 36 | 39 | 57 | 55 | .. |
| Tees, reducing | 26 | 5 | 32 | 21 | 48 | .... | .. |
| Unions | 12 | 44 | 39 | 30 | 59 | .... | .. |

FOR STREET MAINS (IRON PIPES AND FITTINGS).

| | 48 in. | 30 in. | 24 in. | 20 in. | 16 in. | 12 in. | 10 in. | 8 in. | 6 in. | 4 in. | 3 in. | 2 in. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bends | .. | 1 | 2–8 | 2–8 | ... | 5–8 | 7–8 | 6–8 | 15–8 | 14–8 | ... | .. |
| Blow-off branches | .. | ... | .... | 1–6 | ... | .... | .... | ..... | .... | .... | ... | .. |
| Caps | .. | ... | .... | ... | 1 | 5 | 5 | 13 | 21 | 20 | ... | .. |
| Cast-iron plugs | .. | 1 | 1 | 2 | ... | .... | .... | ..... | .... | .... | ... | .. |
| Clamps for cement pipe | .. | ... | .... | 6 | ... | .... | 3 | ..... | .... | 1 | ... | .. |
| Clamp sleeves | .. | ... | 2–6 | 1–6 | ... | 2 | 5 | 8 | 5 | 15 | 8 | .. |
| Clamp sleeves | .. | ... | 7 | 4 | 2 | .... | .... | ..... | .... | .... | ... | .. |
| Clamp sleeves (Smith's) | .. | 1–6 | 1–6 | 3–6 | ... | .... | 1–6 | ..... | .... | .... | ... | .. |
| Check valves | .. | ... | 2 | .... | ... | 1 | 1 | ..... | .... | 1 | ... | .. |
| Crosses | .. | ... | .... | 1 | ... | 6 | 2 | 5 | 8 | 13 | 2 | .. |
| Crosses | .. | ... | .... | .... | ... | 5–4 | .... | ..... | .... | .... | ... | .. |
| Crosses | .. | ... | .... | .... | 2–6 | 4–6 | 6–6 | 2–6 | 7–4 | .... | ... | .. |
| Crosses | .. | ... | .... | .... | ... | 1–8 | 2–8 | 3–4 | .... | .... | ... | .. |
| Drain offsets | .. | ... | .... | .... | ... | .... | .... | ... . | 4–12 | .... | ... | .. |
| Drain offsets | .. | ... | .... | .... | ... | .... | .... | ..... | 7–24 | .... | ... | .. |
| Elbows | .. | ... | 1 | .... | 2 | 8 | 6 | 4 | 9 | 12 | ... | .. |
| Gates | .. | ... | .... | .... | ... | 4 | 3 | 10 | 14 | 51 | 1 | .8 |
| Offsets | .. | ... | .... | .... | ... | 9–12 | 4–12 | 10–12 | 4–6 | 4–6 | ... | .. |
| Offsets | .. | ... | .... | .... | ... | .... | .... | ..... | 5–12 | 3–12 | ... | .. |
| Pipe, in lengths | 2 | 1 | 1 | 46 | 5 | 56 | 52 | 747 | 14 | 278 | ... | .. |
| Reducers | .. | ... | .... | 2–8 | ... | 4–6 | 3–4 | 33–6 | 20–4 | 5–3 | ... | .. |
| Reducers | .. | ... | 1–10 | 2–12 | 1–6 | 10–8 | 8–8 | 3–4 | .... | .... | ... | .. |
| Reducers | .. | ... | .... | .... | ... | .... | 5–6 | ..... | .... | .... | ... | .. |
| Sleeves | .. | 1 | 4 | 7 | 1 | 7 | 12 | 7 | 13 | 39 | 5 | .. |
| Tees | .. | ... | 1 | 2 | 2 | 4 | 4 | 6 | 18 | 21 | 2 | .. |
| Tees | .. | 1–6 | 3–6 | 3–6 | 1–6 | 3–6 | 1–6 | 10–6 | 18–4 | .... | ... | .. |
| Tees | .. | ... | 1–20 | 3–12 | ... | 1–8 | 1–8 | ..... | .... | .... | ... | .. |
| Tees | .. | ... | 1–8 | .... | ... | 1–10 | .... | ..... | .... | .... | ... | .. |
| Wooden plugs | .. | ... | 2 | 2 | 2 | 4 | 5 | 8 | 26 | 30 | 4 | 2 |
| T branches | .. | ... | 1 | 1–12 | ... | 1 | .... | ..... | .... | .... | ... | .. |
| Hawkes' clamp sleeves | .. | ... | .... | .... | ... | .... | 4 | 7 | 5 | 7 | ... | .. |

## Work in Shop and Yard.

3 axes.
4 tamping bars.
6 iron bars.
4 tool bags.
2 work benches.
1 work bench with drawers.
1 30-inch overflow bell.
Lot of blocks and wedges.
Lot of bolts and clocks for meters.
7 pair rubber boots.
10 blankets.
6 cock boxes.
6 hydrant boxes.
4 iron boxes.
50 service boxes.
2 small derricks.
3 breast derricks.
1 Prentiss upright drill.
4 hay forks.
80 large frames and covers for gates.
4 small frames and covers for gates.
55 frames and covers for hydrants.
3 furnaces.
1 Atlas engine.
2 grindstones.
2 claw hammers.
3 hand hammers.
4 paving hammers.
7 sledge hammers.
6 harnesses.

27 wooden boxes.
1 thawing boiler and furnace.
2 buggies.
1 Goddard buggy.
7 oil cans.
1 tip cart.
2 casks cement.
12 chains.
8 chairs.
4 tool chests.
3 grain chests.
1 barrel charcoal.
1 barrel clay.
1 clothes closet.
1 drying closet.
1 meter closet.
2 clocks.
3 oil coverings for horses.
Lot of counters and ratchets.
1 hay cutter.
1 washer cutter.
11 pipe cutters.
500 feet cypress.
3 machines for tapping cement pipe.
3 machines with taps and drills, for tapping supplies.
1 Saunders' pipe machine with dies.
1 Smith drilling machine.
1 ⅝-inch Ball and Fitts meter.
1 1-inch Ball and Fitts meter.
1 4-inch Hersey meter.
1 ⅝-inch Nash meter.
1 1½-inch Thomson meter.
4 ⅝-inch Union Rotary meters.
2 ¾-inch Union Rotary meters.
2 1½-inch Union Rotary meters.
1 2-inch Union Rotary meter.
2 3-inch Union Rotary meters.
1 6-inch Union Rotary meter.
4 ⅝-inch Worthington meters.
3 ¾-inch Worthington meters.
4 1-inch Worthington meters.
2 1½-inch Worthington meters.
2 2-inch Worthington meters.
7 oilers.
120 lbs. hemp packing.
52 lbs. rubber packing.
18 pails.
56 picks.
4 hatchets.
2 paving heaters.
1 floating hook.
6 horses.
11 wooden horses.
2 hoes.
1 blow-off hose.
65 feet of ¾-inch hose.
200 feet of 2½-inch hose.
4 hooks for tapping pipe.
16 post hydrants.
2 hydrant valves.
6 hydrant bodies.
15 post hydrant jackets.
9 post hydrant rods.
2 ¾-inch garden hydrants.
1 lathe with chucks and tools.
1 ladder.
5 ladles.
45 lanterns.
4 lead kettles.
1,650 lbs. lead.
8 large malls.
1 wrench rack.
146 risers for boxes.
13 shut-off rods.
3 buffalo robes.
5 lap robes.
3 rope tackles.
2 elevating screws.
2 bracing screws.
2 sand sieves.
1 sleigh.
8 screw drivers.
5 saws.
Lot of block stone.
2 platform scales.
48 shovels.
2 snow shovels.
335 seals.
1 old stove.
29 feet shafting with belts and pulleys.
Lot of old timber.
1 saw table complete.
2 tanks for measuring water.
1 box hydrant tools.
3 sets main pipe tools.
1 truck.
1 hand truck.

12 plates with dies.
Plane, level and square.
228 lbs. lead pipe.
450 feet thawing-out pipe.
2 diaphragm pumps and hose.
3 hand pumps.
8 thawing-out pumps.
1 Heald and Sisco pump.
3 pungs.
3 paving rammers.
20 trench rammers.
2 rakes.
2 ratchets and drills for tapping main pipe.
1 meter rack.
1 pick rack.
1 shovel rack.
6 pipe tongs.
1 chain tongs.
3 trowels.
4 bench vises.
3 wagons.
4 cords of wood.
5 blow-off wrenches.
3 1-inch cock wrenches.
5 2-inch cock wrenches.
7 fork wrenches.
6 monkey wrenches.
11 gate wrenches.
19 pipe wrenches.
4 small tee wrenches.
4 flush hydrant wrenches.
Lot of old iron.
Lot of old brass.

## Tools at Fresh Pond.

### ON THE WORKS.

1 clay auger.
2 axes.
6 bars.
4 lead bars.
3 chains.
4 whipple-tree chains.
2 tool chests.
6 draught chains.
1 stone drag.
3 sledge hammers.
1 grab harness.
10 grub hoes.
1 levelling instrument and staff.
2 levels.
2 malls.
2 edging knives.
5 pails.
4 chisel picks.
24 picks.
4 ploughs.
1 diaphragm pump.
50 ft. of rope.
2 cross cut saws.
1 hand saw.
2 iron scrapers.
1 wooden scraper.
2 sod spades.
2 stones.
92 shovels.
1 rope tackle.
1 monkey wrench.
2 iron wedges.
2 wheelbarrows.
Lot of railroad ties.

### RAILROAD TOOLS (ON THE WORKS).

2 tamping bars.
2 heaving bars.
5 cold chisels.
3 rail grabs.
2 spike hammers.
12 shovels.
1 track wrench.
2 monkey wrenches.
1 gauge.

HOLWORTHY STREET GATE-HOUSE.

1 boat.
1 gun.
5 hoes.
150 ft. hose.
3 lanterns.
1 pick.
4 gravel rakes.
3 shovels.
4 gate wrenches.
2 blow-off wrenches.
1 Stillson wrench.

BRICK HOUSE, STABLE AND TOOL HOUSE, CONCORD AVENUE.

5 axes.
2 blankets.
2 old boats.
1 draw bar.
3 iron bars.
3 chains.
1 tip-cart.
1 grain chest.
1 sod cutter.
1 oil covering.
1 curry comb and brush.
1 fork.
9 hay forks.
1 grindstone.
17 tons hay.
2 sets of harness.
1 horse.
1 harrow.
Hooks, rests, etc., for painter's staging.
1 wheel jack.
4 ladders.
1 large lantern.
5,000 ft. of lumber.
1 mall.
1 mowing machine.
1 oil can.
200 cedar posts.
200 lbs. paint.
4 pails.
1 plough.
2 force pumps.
1 snow plough.
1 paving rammer.
2 hay racks.
2 hay rakes.
1 horse rake.
3 rope fall.
2 hand rakes.
100 ft. of rope.
1 post hole rammer.
1 post hole drill.
2 post hole scoops.
1 hand roller.
1 horse roller.
1 hay scales.
1 screen.
2 water spouts.
4 scythes and snaths.
2 shovels.
1 sled.
1 tedder.
1 platform wagon.
3 whipple-trees.
1 monkey wrench.
1 wagon wrench.

## Tools at Stony Brook Dam.

1 axe.
1 rowboat and oars.
1 pair rubber boots.
1 iron bar.
2 chairs.
1 ton of coal.
1 watering can.
5 steel drills.
1 lawn mower.
1 pick.
2 piked poles.
40 ft. of rope.
1 rope and falls.
2 steel rakes.
2 hay rakes.
2 30-in. sleeves.

2 hay forks.
1 grindstone.
2 pairs grab hooks.
1 hoe.
2 grub hoes.
1 sledge hammer.
50 ft. of hose.
1 harrow.
1 sod knife.
1 ladder.
1 lantern.
50 lbs. pig lead.
1 ladle.
1 lead kettle.
1 horse mowing machine.
1 stove and fixtures.
14 cast-iron signs.
1 horse sled.
2 sickles.
1 shovel.
2 scythes.
2 snaths.
1 tip-cart and harness.
1 pair iron traces.
1 whipple-tree.
1 wheelbarrow.
2 monkey wrenches.
2 gate wrenches.
2 lengths 36-in. pipe.
12 lengths 30-in. pipe.

# REPORT OF THE ENGINEER OF THE PUMPING STATION.

PUMPING STATION, CAMBRIDGE WATER WORKS,
Dec. 5, 1892.

*Hiram Nevons, Esq., Superintendent:* —

SIR, — I would report the machinery at the pumping station in good condition.

The new high service engine contracted for with the Geo. F. Blake Mfg. Co. has been set up in the basement, and was started at regular work on November 23. It is a compound duplex condensing engine, with independent air pump and condenser, has steam cylinders 14 in. and 28 in., and plungers 14 in. in diameter, with a stroke of 18 in. The engine is nicely finished and is a first-class job in every respect.

The copper top of boiler chimney has been replaced by one of cast-iron, and a wrought iron ladder and copper lightning rods placed on the outside. The chimney has been pointed and oiled.

The underpinning and brickwork of the main building and boiler house have been pointed.

Following will be found a statement of the expenses at the pumping station, with the usual tables.

Respectfully submitted,

EDWIN C. BROOKS,
*Engineer.*

**Statement.**

| | |
|---|---|
| $1002\frac{420}{2240}$ tons Cumberland coal @ $4.38 | $4,389 58 |
| $332\frac{1620}{2240}$ tons Cumberland coal @ $4.05 | 1,345 53 |
| Oil, waste, packing, etc. | 261 58 |
| Repairs on engines and boilers | 84 00 |
| Repairs on buildings and care of grounds | 1,070 21 |
| Tools | 44 03 |
| Lighting | 11 81 |
| Ice | 20 00 |
| Telephone | 74 25 |
| Expressing | 10 00 |
| Salaries | 6,192 52 |
| | $13,503 51 |

### Stock on hand Dec. 1, 1892.

732 tons Cumberland coal, 53 gallons cylinder oil, 45 gallons engine oil, 20 gallons kerosene, 15 lbs. tallow, 25 lbs. cotton waste, 10 lbs. rubber packing, 10 lbs. Usidurian packing, 25 lbs. flax packing, 18 manhole gaskets, ½ quire emery cloth, 10 files, 1 doz. gauge glasses, 50 lbs. soap, 2 brooms, 400 fire bricks, 500 lbs. bolts and nuts, 1 lot iron pipe, 1 lot pipe fittings.

### Tools, Furniture and Instruments.

1 18-in. x 10-ft. engine lathe, with chucks, tools, etc., 1 5-in. x 6-in. engine, 1 lot shafting, pulleys and belting, 1 pipe threading machine, with dies, 1 grindstone, 1 emery wheel, 2 vises, 2 vise benches, 3 die plates and dies, 1 set pipe taps, 1 set hand taps, 2 pipe cutters, 14 pairs pipe tongs, 6 screw wrenches, 5 Stillson wrenches, 3 hammers, 1 copper hammer, 20 cold chisels, 1 hand bellows, 24 files, 2 clamps, 2 jackscrews, 2 ratchets, 30 drills, 1 breast drill, 6 steel bars, 2 soldering irons, 4 cylinder head cranes, 18 eye bolts, 75 starting bolts, 1 chain fall, 3 tackles, 2 ladles, 4 wooden horses, 1 oil cabinet, 1 set measures, 1 lot oil cans, 1 oil pump, 1 carpenter's bench and tools, 3 axes, 1 hatchet, 1 lot fire tools, 1 coal car, 12 scoop shovels, 2 wheelbarrows, 1 pair platform scales, 1 tube scraper, 1 forge, 1 anvil, 1 sledge, 6 pairs tongs, 2 hand chisels, 2 lawn mowers, 2 rakes, 1 spade, 1 weeder, 1 pick, 3 forks, 1 ice saw, 1 ice chisel, 4 ladders, 4 stepladders, 200 ft. 2-in. hose and pipe, 50 ft. ½-in hose and pipe, 1 water cooler, 6 fire pails, 8 water pails, 1 window brush, 1 floor brush, 1 dust brush, 1 feather duster, 1 dust pan, 1 lot matting, 3 mats, 6 spittoons, 1 lot gas fixtures, 1 dynamo, 1 arc lamp, 1 lot incandescent lamps and fixtures, 4 bracket lamps, 4 lanterns, 3 hand lamps, 26 cells Julien storage battery, 1 desk, 2 tables, 12 chairs, 2 clocks, 1 barometer, 1 hygrophant, 1 thermometer, 1 indicator, 2 rain gauges, 1 snow gauge, 1 cot bed and bedding, 1 belt clamp, 1 Hancock inspirator, 1 lot belting.

## Engine Record, Pond Levels and Rainfall.

| Date. | Low Service Engines. | | | | | | High Service Engine. | | | Total water pumped. | Daily average water pumped. | Total coal consumed. | Daily Average coal consum'd | Average height of pond. | Rainfall. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Engine No. 1. | | | Engine No. 2. | | | | | | | | | | | |
| | Pumping time. | | Water pumped. | Pumping. time. | | Water Pumped. | Pumping time. | | Water Pumped. | | | | | | |
| | Hrs. | Min. | Gallons. | Hrs. | Min. | Gallons. | Hrs. | Min. | Gallons. | Gallons. | Gallons. | Lbs. | Lbs. | Feet. | In. |
| December, 1891 | 369 | 45 | 134,303,950 | | | | 496 | 00 | 14,134,349 | 148,238,299 | 4,788,332 | 239,960 | 7,739 | 15.22 | 6.78 |
| January, 1892 | | | | 372 | 15 | 141,687,700 | 496 | 00 | 13,983,590 | 155,671,290 | 5,021,584 | 247,800 | 7,994 | 16.12 | 4.32 |
| February, " | 347 | 45 | 129,953,450 | | | | 464 | 00 | 13,471,661 | 143,425,111 | 4,945,693 | 226,100 | 7,797 | 15.78 | 2.46 |
| March, " | 368 | 00 | 138,413,000 | | | | 496 | 00 | 14,658,701 | 153,071,701 | 4,937,797 | 238,100 | 7,681 | 15.58 | 3.56 |
| April, " | 359 | 15 | 136,224,550 | | | | 480 | 00 | 12,388,589 | 148,613,139 | 4,953,771 | 222,300 | 7,410 | 15.87 | .77 |
| May, " | | | | 387 | 45 | 147,027,100 | 496 | 00 | 15,094,598 | 162,121,698 | 5,229,732 | 237,500 | 7,661 | 16.35 | 6.06 |
| June, " | | | | 430 | 30 | 164,546,250 | 481 | 15 | 15,679,584 | 180,225,834 | 6,007,528 | 248,600 | 8,287 | 16.37 | 4.23 |
| July, " | 425 | 50 | 166,702,800 | | | | 500 | 40 | 16,686,202 | 183,389,002 | 5,915,774 | 281,200 | 9,071 | 14.98 | 2.53 |
| August, " | 436 | 15 | 167,550,350 | | | | 496 | 30 | 15,963,994 | 183,514,344 | 5,919,818 | 269,500 | 8,693 | 13.11 | 6.11 |
| September, " | 394 | 45 | 156,484,350 | | | | 480 | 00 | 15,297,446 | 171,781,796 | 5,726,060 | 262,500 | 8,750 | 13.78 | 1.84 |
| October, " | 248 | 45 | 97,490,250 | 164 | 30 | 62,374,400 | 496 | 00 | 16,001,191 | 175,865,841 | 5,673,092 | 261,400 | 8,432 | 13.43 | 2.15 |
| November, " | | | | 369 | 45 | 140,540,950 | 480 | 00 | 14,703,755 | 155,244,705 | 5,174,823 | 255,300 | 8,510 | 12.89 | 4 04 |
| Total | 2,950 | 20 | 1,127,122,700 | 1,724 | 45 | 656,176,400 | | | 178,063,660 | 1,961,362,760 | | 2,990,200 | | | 44.85 |
| Daily average | 8 | 04 | 3,079,570 | 4 | 43 | 1,792,832 | | | 486,513 | 5,358,[illegible] | | 8,170 | | 1 | |

# REPORT OF THE CHIEF ENGINEER OF THE FIRE DEPARTMENT.

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Chief Engineer's Office, City Hall,
Cambridge, Dec. 22, 1892.

*To His Honor the Mayor and the City Council: —*

Gentlemen,— In compliance with the provisions of the ordinance governing the Fire Department, I herewith present my fourteenth annual report; the same being for the year beginning Dec. 1, 1891, and ending Nov. 30, 1892.

### Membership.

By the revision of the ordinance in relation to fire department, the office of relief engineer has been abolished, and that of permanent assistant enginemen established, thereby adding seven men to the permanent force, which to a great extent will increase its efficiency.

During the year eight resignations of call members were received and accepted, and two permanent men, in the interest of discipline, were discharged.

The total membership of the department is now composed of one hundred and six men, there being one vacancy. Thirty-two are permanently employed and seventy-four are call men.

### Apparatus.

Early in the year engine No. 5 was returned from the repair shop, where its machinery was thoroughly repaired, furnished with a new boiler and painted. The chemical engine was also thoroughly repaired and painted. General repairs were also made on fuel-wagons Nos. 3 and 4.

During the year a hose wagon was purchased for engine company No. 2, and a fuel wagon, to take the place of the old one at engine house No. 1.

All the apparatus, at the present time, is in good working order

and, as far as now known, will require but slight repairs the coming year.

I would renew my recommendation of last year that a chemical engine be purchased and located in the westerly section of Ward One. Better fire protection is needed in that neighborhood, and I hope the matter will receive your early endorsement.

### Hose.

Since my last report, eight hundred feet of two and a half inch hose has been condemned, and nine hundred feet purchased. The total amount of two and one-half inch hose now in the service and in good condition is eleven thousand and two hundred feet.

### Hydrants.

The sources of water supply for the extinguishing of fires have been largely increased by the laying of larger pipes, and the locating of fifty-five additional hydrants; making a total of hydrants distributed through the city of seven hundred and fifty-three.

### Horses.

During the year, one of the pair of horses attached to engine No. 1 died after a few hours sickness, and one of the pair attached to ladder carriage No. 2 became lame, and by the advice of the veterinary, was shot. Two horses were bought to take their places. The horse attached to hose carriage No. 5, having been in the service ten years, and a spare horse, which was not suited for the service, were disposed of in exchange for a younger animal. There are now twenty-six horses in the service, all in good condition excepting one or two of the aged ones, which it may be necessary to dispose of during the ensuing year.

### Houses.

The houses of the department are in their usual good condition. All repairs found needed during the year, in order to keep them up to the proper standard, have been made under the direction of the superintendent of public buildings.

I desire to call your attention to the fact that this department is sadly in need of a proper place for the storage of its spare apparatus, and in order that the matter may come properly before you, I would renew my recommendation of last year, that a suitable building for that purpose be provided.

### Appropriation and Expenditures.

The appropriation for the maintenance of this department for the year ending November 30, was $61,016.60. The expenditures were as follows:

| | | |
|---|---|---|
| Apparatus and repairs | $3,141 22 | |
| Bedding and furniture | 262 84 | |
| Expressing | 58 10 | |
| Fuel for houses and engines | 1,243 27 | |
| Gas | 992 95 | |
| Harness and repairs | 458 57 | |
| Hay, grain and straw | 3,262 11 | |
| Horses | 725 00 | |
| Horse hire and men (extra) | 517 50 | |
| Horse-shoeing | 511 98 | |
| Hose and repairs | 1,289 88 | |
| Hydrants, care of | 72 80 | |
| Incidentals | 114 50 | |
| Pay roll | 47,420 03 | |
| Printing and stationery | 64 78 | |
| Supplies | 580 40 | |
| Washing | 300 55 | |
| | | $61,016 48 |
| Balance unexpended | | $0 12 |

### Fires and Alarms.

There has been a large number of incendiary fires during the year. These fires originated in stables and sheds, on the line of Banks and Dyke Streets and in cars loaded w th lumber on the tracks of the Boston & Albany Railroad. Also in the unused coal sheds, on Deacon Street, which were set on fire several times. The origin of these fires was supposed to be the work of malicious and mischievous boys.

The whole number of fires and alarms during the year, was two hundred and eight bell alarms, and thirty-six still alarms. There were also six second, and three third alarms given. Ten alarms were given for fires out of the city, at six of which a portion of the department rendered assistance.

The Somerville and Medford fire departments rendered valuable assistance at the burning of Henderson Brothers' carriage manufactory, on March 22, and the Boston fire boat at the fire in the coal and wood sheds owned by the Boston & Maine Railroad Company, on June 5. The total loss by fire for the year ending

November 30, and the insurance and the amount of insurance paid being as follows:

| | Loss. | Insurance. | Insurance Paid. |
|---|---|---|---|
| On buildings . . . | $71,697 52 | $221,950 00 | $63,581 69 |
| On contents . . . | 153,594 94 | 159,544 89 | 89,590 82 |
| Totals . . . | $225,292 46 | $381,494 89 | $153,172 51 |

More than two-thirds of the entire losses by fire the past year were caused by the burning of a portion of A. H. Hews & Co.'s pottery, and by that of Henderson Brothers' carriage manufactory.

### Casualties.

Hoseman Josiah P. Parsons, of Engine Co. No. 4, and George P. Banister of Engine Co. No. 5, while working at a fire December 1, were severely bruised by the falling of a portion of a brick wall upon them, which rendered them unfit for duty for several weeks.

In answering an alarm of fire from box 158, on December 24, and while in the act of turning the engine to reach a hydrant, engineman John E. Ricker, of Engine Co. No. 4, was very severely injured by being caught between the rear of the engine and the curbstone, causing a compound dislocation of the ankle and fracture of fibula. He has been unable to perform any duty since that time.

Lieut. James F. Dalton, of Ladder Co. No. 2, while working at a fire, on October 21, was severely cut on the right hand by falling window glass.

### Appointments and Discharges.

*Engine Co. No. 1.* — James McLean, hoseman, was discharged at his own request February 27; Daniel E. Powers, hoseman, was appointed assistant engineman May 31, and assigned to Engine No. 1; John W. Johnson was appointed hoseman July 19; William H. Emery, hoseman, was discharged at his own request October 31, and J. Joseph Corcoran was appointed to fill the vacancy November 15.

*Engine Co. No. 2.* — John McCarthy, hoseman, was appointed a driver October 26, and assigned to hose-wagon No. 1.

*Engine Co. No. 3.* — William H. Cairns, hoseman, was appointed assistant engineman May 31, and assigned to Engine No. 3.

*Engine Co. No. 4.* — Benjamin Young, fireman, was discharged at his own request December 18, and Richard E. Hanna was ap-

pointed hoseman January 19; Jeremiah O'Connor, hoseman, was appointed assistant engineman May 31, and assigned to Engine No. 4.

*Engine Co. No. 5.* — Joseph P. Cartwright, driver of engine, was discharged for violating Article 25 of the rules and regulations March 8; John E. Fitzgerald, hoseman, was discharged at his own request March 8; Francis P. Carr, driver of hose-carriage, was discharged for violating Article 25 of the rules and regulations March 15; William H. Crump, hoseman, was discharged at his own request May 10, and George T. Messer was appointed to fill the vacancy July 19.

*Engine Co. No. 6.* — James T. McCabe, hoseman, was appointed assistant engineman May 31,and assigned to chemical engine; John H. McDermott, hoseman, was appointed assistant engineman May 31, and assigned to Engine No. 2; Charles A. Blair was appointed assistant engineman May 31, and assigned to Engine No. 6; James Forsyth, hoseman, was discharged at his own request June 6; James H. Furfey, hoseman, was appointed a driver October 26, and assigned to hose-carriage No. 5.

*Ladder Co. No. 1.* — Augustine B. Osborn was appointed ladderman January 19; John H. Dardis was appointed ladderman July 19, and William H. Buchanan on November 15.

*Ladder Co. No. 2.* — Thomas P. Rowe, ladderman, was discharged at his own request April 12; James M. Casey, ladderman, was appointed assistant engineman July 5, and assigned to Engine No. 5; George E. Cragin, ladderman, was discharged at his own request October 18; George A. Garrity and James H. Skehan were appointed laddermen November 15; William H. Lydston, relief engineer, discharged by reason of the position being abolished.

## Conclusion.

In closing this report I desire to express to the officers and members of the department my sincere thanks for the earnest and faithful manner in which they have performed their duties during the past year. To the Chief of Police and members of that force my thanks are also due, for the valuable assistance they have rendered.

Respectfully submitted,

THOMAS J. CASEY,

*Chief Engineer.*

# APPENDIX.

## Joint Standing Committee on Fire Department.

*Aldermen* . . . . . AYLWARD and WHEELER.
*Councilmen* . . . . . MACDONALD, JONES and MCCORMICK.

## Engineers.

| Name. | Rank. | Age. | Residence. |
|---|---|---|---|
| *Permanent Force.* | | | |
| Thomas J. Casey ..... | Chief Engineer..... | 59 | 449 Cambridge St. |
| *Call Force.* | | | |
| Nathaniel W. Bunker ..... | Dist. Chief Engineer | 49 | 6 Beech St. |
| Charles W. Brackett ..... | " " " | 56 | 133 Mt. Auburn St. |
| William B. Cade..... | " " " | 58 | 27 Park St. |

## Engine Company, No. 1.

*House, Brattle Square.*

| No. of Badge. | Name. | Rank. | Age. | Residence. |
|---|---|---|---|---|
| | *Permanent Force.* | | | |
| 1 | Edwin E. Priest ..... | Engineman ..... | 55 | 96 Winthrop St. |
| 31 | Daniel E. Powers..... | Asst. Engineman. | 33 | 19 DeWolf St. |
| 2 | Hiram W. Hooker.... | Driver of engine.. | 53 | Engine House. |
| 26 | John McCarthy ..... | Driver of hose ... | 42 | 416 Main St. |
| | *Call Force.* | | | |
| 28 | Daniel E. Shea..... | Captain ..... | 36 | 33 Murray St. |
| 27 | John L. Jones, Jr. ... | Lieutenant..... | 41 | 650 Main St. |
| 25 | James Jefferson..... | Hoseman ..... | 39 | 9 Eliot St. |
| 26 | Albert L. Landerkin.. | " ..... | 38 | 5 Rutland St. |
| 29 | Thomas H. Kneeland . | " ..... | 29 | 57 Plympton St. |
| 97 | William H. Perry..... | " ..... | 30 | 22 Eliot St. |
| 30 | John W. Johnson .... | " ..... | 22 | 23 Park St. |
| 23 | J. Joseph Corcoran... | " ..... | 32 | 56 Plympton St. |

## Engine Company, No. 2.

*House, Main Street, near Winsor.*

| No. of Badge. | Name. | Rank. | Age. | Residence. |
|---|---|---|---|---|
| | *Permanent Force.* | | | |
| 4 | Thomas Wiseman .... | Engineman ..... | 48 | 392 Main St. |
| 80 | John H. McDermott . | Asst. Engineman. | 42 | 11 Dodge St. |
| 5 | John H. Walker..... | Driver of engine.. | 63 | 85 Winsor St. |
| 6 | Albert F. Sawyer..... | Driver of hose ... | 49 | 1 Harold Pl. |
| | *Call Force.* | | | |
| 32 | James Cunningham... | Captain ..... | 50 | 25 State St. |
| 33 | Arthur C. Day ..... | Lieutenant..... | 55 | 47 Austin St. |
| 35 | Benjamin D. Foss.... | Hoseman ..... | 56 | 21 Cherry St. |
| 37 | John Haley ..... | " ..... | 38 | 413 Main St. |
| 39 | Warren H. Dow..... | " ..... | 42 | 414 Main St. |
| 87 | Charles A. Cairns .... | " ..... | 26 | 14 Clark St. |
| 88 | Charles H. Cutting ... | " ..... | 39 | 6 Harold Pl. |
| 40 | John H. Kelly ..... | " ..... | 24 | 16 Plymouth St. |

## Engine Company, No. 3.

*House, Fourth Street, near Cambridge.*

| No. of Badge. | Name. | Rank. | Age. | Residence. |
|---|---|---|---|---|
| | *Permanent Force.* | | | |
| 7 | Hiram Blood..... | Engineman ..... | 60 | 32 Fifth St. |
| 41 | William H. Cairns.... | Asst. Engineman. | 29 | 20 Fourth St. |
| 8 | Peter F. McSorley .... | Driver of engine.. | 33 | 33 Fourth St. |
| 9 | Lorenzo H. Dale ..... | Driver of hose ... | 49 | 104 Otis St. |
| | *Call Force.* | | | |
| 43 | William F. Newman .. | Captain ..... | 46 | 42 Winter St. |
| 42 | Walter Baker ..... | Lieutenant ..... | 38 | 91 Gore St. |
| 45 | Eliot E. Alley..... | Hoseman ..... | 56 | 73 Thorndike St. |
| 46 | Timothy J. Mahoney.. | " ..... | 44 | 100 Vine St. |
| 48 | John F. Brassell ..... | " ..... | 36 | 12 Warren St. |
| 49 | Patrick J. Hayes ..... | " ..... | 29 | 92 Gore St. |
| 47 | Exurie J. Willmeth.. | " ..... | 29 | 39 Fourth St. |
| 44 | Joseph W. Hopkins... | " ..... | 27 | 66 Otis St. |

## Engine Company, No. 4.

*House, North Avenue, near Russell Street.*

| No. of Badge. | Name. | Rank. | Age. | Residence. |
|---|---|---|---|---|
| | *Permanent Force.* | | | |
| 10 | John E. Ricker..... | Engineman ..... | 48 | 234 North Ave. |
| 55 | Jeremiah O'Connor... | Asst. Engineman. | 34 | 69 Spruce St. |
| 11 | George E. Muzzey.... | Driver of engine.. | 50 | 221 North Ave. |
| 12 | Sylvanus G. Griffin ... | Driver of hose ... | 45 | 234 North Ave. |
| | *Call Force.* | | | |
| 52 | William J. Hanna .... | Captain ..... | 46 | 9 Rice St. |
| 50 | George F. Tibbetts ... | Lieutenant..... | 52 | 6 Beech St. |
| 58 | Arthur C. Griffin..... | Hoseman ..... | 42 | 43 Rice St. |
| 56 | Josiah P. Parsons .... | " ..... | 44 | 13 Regent St. |
| 51 | Daniel McCaughin.... | " ..... | 32 | Rear 5 Russell St. |
| 53 | Edward A. Hurd ..... | " ..... | 42 | 2 Henderson Ct. |
| 54 | George F. Durgin..... | " ..... | 24 | 61 Creighton St. |
| 57 | Richard E. Hanna.... | " ..... | 22 | 9 Rice St. |

## Engine Company, No. 5.

*House, Inman Square.*

| No. of Badge. | Name. | Rank. | Age. | Residence. |
|---|---|---|---|---|
| | *Permanent Force.* | | | |
| 13 | Charles E. Conner | Engineman ..... | 41 | 1337 Cambridge St. |
| 83 | James M. Casey.... | Asst. Engineman. | 28 | 449 Cambridge St. |
| 3 | Charles R. Hooker.... | Driver of engine.. | 47 | 15 Eliot St. |
| 68 | James H. Furfey ..... | Driver of hose ... | 35 | 23 Prince St. |
| | *Call Force.* | | | |
| 59 | Francis P. Scanlan ... | Captain ..... | 46 | 1343 Cambridge St. |
| 64 | William T. King ..... | Lieutenant ..... | 36 | Engine House. |
| 61 | George W. McIntire .. | Hoseman ..... | 38 | 70 Inman St. |
| 67 | George P. Banister ... | " ..... | 32 | 76 Norfolk St. |
| 66 | James H. McGrath ... | " ..... | 35 | 1070 Cambridge St. |
| 60 | George W. Stevens ... | " ..... | 26 | 44 Antrim St. |
| 104 | Charles Barney..... | " ..... | 30 | 44 Antrim St. |
| 63 | George T. Messer..... | " ..... | 31 | 2 Hampshire Ct. |

## Engine Company, No. 6.

*House, River Street.*

| No. of Badge. | Name. | Rank. | Age. | Residence. |
|---|---|---|---|---|
| | *Permanent Force.* | | | |
| 98 | J. Lewis Howe ..... | Engineman ..... | 39 | 184 River St. |
| 62 | Charles A. Blair..... | Asst. Engineman. | 31 | 1383 Cambridge St. |
| 38 | Charles H. Chapman.. | Driver of engine.. | 39 | 204 River St. |
| 34 | William Parks ..... | Driver of hose ... | 48 | 208 River St. |
| | *Call Force.* | | | |
| 24 | John H. Brown ..... | Captain ..... | 41 | 206 River St. |
| 75 | James P. Ewell ..... | Lieutenant ..... | 56 | 56 Franklin St. |
| 100 | John E. Savage ..... | Hoseman ..... | 38 | 56 Jay St. |
| 101 | John H. Robbins ..... | " ..... | 37 | 17 Brookline St. |
| 102 | Melvin A. Priest ..... | " ..... | 35 | 20 Fairmont St. |
| 103 | William F. Stearns ... | " ..... | 27 | 431 Main St. |
| 94 | George W. Butler .... | " ..... | 50 | 80 River St. |
| 73 | Charles H. Waite..... | " ..... | 46 | 27 Pine St. |

## Chemical Engine Company, No. 1.

*House, Western Avenue.*

| No. of Badge. | Name. | Rank. | Age. | Residence. |
|---|---|---|---|---|
| | *Permanent Force.* | | | |
| 17 | Lewis C. Clark..... | Engineman ..... | 48 | Engine House. |
| 82 | James T. McCabe .... | Asst. Engineman. | 30 | 2 Ericcson Ct. |
| 18 | William Haley ..... | Driver..... | 44 | 117 Auburn St. |

## Hook and Ladder Company, No. 1.

*House, Eliot Square.*

| No. of Badge. | Name. | Rank. | Age. | Residence. |
|---|---|---|---|---|
| | *Permanent Force.* | | | |
| 22 | John T. McNamee.... | Captain ..... | 37 | 29 Putnam Ave. |
| 19 | Albert S. Benson ..... | Driver..... | 49 | 56 Boylston St. |
| | *Call Force.* | | | |
| 69 | Charles Emerson ..... | Lieutenant ..... | 47 | 12 Avon Pl. |
| 76 | Charles A. Sharon.... | Ladderman ..... | 44 | 13 Pine St. |
| 78 | William R. Mitchell... | " ..... | 39 | 77 Plympton St. |
| 74 | James W. Erwin ..... | " ..... | 37 | 66 Boylston St. |
| 77 | William Stolba ..... | " ..... | 35 | 17 DeWolf St. |
| 70 | Thomas H. Donlan ... | " ..... | 31 | 38 Grant St. |
| 72 | Joseph E. Burke ..... | " ..... | 29 | 193 Mt. Auburn St. |
| 71 | Willard H. Poole ..... | " ..... | 34 | 24 Rockland St. |
| 79 | Edward P. Donohue .. | " ..... | 35 | 1 Willard Street Ct. |
| 65 | Augustine B. Osborn.. | " ..... | 33 | 99 Mt. Auburn St. |
| 99 | John H. Dardis ..... | " ..... | 22 | 115½ Hampshire St. |
| 14 | William H. Buchanan. | " ..... | 24 | 8 Eliot St. |

## Hook and Ladder Company, No. 2.

*House, Portland Street.*

| No. of Badge. | Name. | Rank. | Age. | Residence. |
|---|---|---|---|---|
| | *Permanent Force.* | | | |
| 21 | Thomas L. Hunter ... | Captain ..... | 52 | 83 Winsor St. |
| 20 | Thomas Mimnaugh... | Driver..... | 39 | 33 Warren St. |
| | *Call Force.* | | | |
| 81 | James F. Dalton ..... | Lieutenant ..... | 53 | 17 Squire's Ct. |
| 91 | Lincoln E. Wheeler... | Ladderman ..... | 48 | 48 Cherry St. |
| 92 | John Gaughan ..... | " ..... | 50 | 25 Ninth St. |
| 90 | Albert Smith..... | " ..... | 38 | 3 Suffolk St. |
| 89 | Andrew Burke ..... | " ..... | 50 | 87 Vine St. |
| 84 | John B. Maguire ..... | " ..... | 33 | 148 Bridge St. |
| 85 | Thomas F. O'Connell. | " ..... | 30 | 51 Ninth St. |
| 95 | Louis J. Stanger..... | " ..... | 36 | 57 Vine St. |
| 96 | Louis J. Anshelm .... | " ..... | 32 | 187 Broadway. |
| 86 | James H. Skehan .... | " ..... | 22 | 4 Washington St. |
| 93 | George A. Garrity .... | " ..... | 31 | 1 Loughrey Ave. |

# FIRES AND ALARMS

From Dec. 1, 1891, to Dec. 1, 1892.

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## DECEMBER.

Tuesday, Dec. 1, 5.08-5.21-5.32 a.m. Box 75.

Richdale Avenue. Owned by A. H. Hews & Co. Loss, $15,023. Insurance, $12,000. Occupied by A. H. Hews & Co., as pottery. Loss, $24,386. Insurance, $10,454. Cause, overheated kiln.

Tuesday, Dec. 1, 12.05 p.m. Still.

No. 40 State Street. Owned by Maria Nash. Loss, $50. Insurance, $4,000. Occupied by C. H. Snow as dwelling. Loss, trifling. Cause, child and matches. Originated in a bedroom.

Tuesday, Dec. 1, 6.19 p.m. Box 65.

No. 2 Wright Street. Owned by J. M. Hilton. Loss, $15. Insurance, $2,000. Occupied by A. P. Dennen as dwelling. Loss, trifling. Cause, careless use of lamp. Originated in a clothes closet.

Wednesday, Dec. 2, 2 p.m. Still.

Winsor Street. Burning rubbish, on dump.

Tuesday, Dec. 8, 10.35 a.m. Box 42.

Western Avenue. Boston (Brighton District) Engine Co. No. 6 and Chemical Co. No. 1 rendered assistance.

Tuesday, Dec. 8, 11 a.m. Still.

Freight yard, Boston & Albany R. R. Car of lumber. Loss, trifling. Cause, incendiary.

Tuesday, Dec. 8, 11 a.m. Still.

No. 2 Third Street. Owned by Charles Linehan. Occupied by several families as dwellings. No loss. Cause, soot in chimney taking fire.

Thursday, Dec. 10, 4.47 p.m. Box 216.

Freight yard, Boston & Albany R. R. Car of lumber. Loss, $25. Insurance, $25. Cause, incendiary.

Friday, Dec. 11, 3.14 a.m. Box 26.

No. 368 Main Street. Owned by Allen & Endicott Building Co. Occupied as boiler room. No loss. Cause, sparks. Originated in shavings.

Friday, Dec. 11, 6.39 p.m. Box 34.

Lincoln Place. Owned and occupied by Mason Davis as soap manufactory. Loss, trifling. Cause, sparks. Originated on the roof.

Monday, Dec. 14, 6.35 p.m. Box 114.

Freight yard, Boston & Albany R. R. Car of lumber. Loss, $125. Insurance, $125. Cause, incendiary.

Tuesday, Dec. 15, 9.08 p.m. Box 153.

Rear Banks Street. Owned and occupied by S. H. Blodgett as stable. No loss. Cause, unknown.

Thursday, Dec. 17, 7.49 p.m. Box 17.

No. 33 Brewery Street. Owned by H. B. Scudder. Occupied by Levi Marsman as dwelling. Loss, trifling. Cause, unknown. Originated in a clothes closet.

Friday, Dec. 18, 11.14 a.m. Box 17.

Washington Street. Accidental alarm.

Friday, Dec. 18, 8.10 p.m. Box 34.

No. 111 Columbia Street. Owned by H. A. Turner. Loss, $20. Insurance, $1,000. Occupied by N. A. Somers as dwelling. Cause, thawing out water pipe.

Saturday, Dec. 19, 10.18 a.m. Box 59.

No. 6 Brattle Street. Owned by Charles Moore. Cause, gas explosion. No loss by fire.

Saturday, Dec. 19, 10.25 p.m. Box 36.

No. 263 Main Street. Cause, smoke, mistaken for fire.

Monday, Dec. 21, 11.02 a.m. Box 137.

No. 87 Howard Street. Owned by Jeremiah Lehan. Loss, $40. Insurance, $900. Unoccupied tenement. Cause, unknown. Originated amongst rags on the floor.

Wednesday, Dec. 23, 12.10 p.m. Box 36.

No. 11 Pearl Street. Owned by Hancock heirs. Occupied by W. T. Warren as confectioner. No loss. Cause, ignition of oil. Originated in the cellar.

Thursday, Dec. 24, 6.26 a.m. Box 158.

Enstis Court. Owned by Theodore Downing. Loss, $50. Insurance, $3,000. Occupied by Theodore Downing as currier. Loss, $100. Insurance, $4,000. Cause, sparks from emery wheel.

## JANUARY.

Friday, Jan. 1, 10.20 p.m. Box 53.

No. 16 Holyoke Street. Owned and occupied by W. H. Buck as stable. Loss, trifling. Cause, incendiary. Originated on the ontside of building.

Saturday, Jan. 2, 10.47 p.m. Box 65.

North Avenue. Electric car taking fire. Cause, defective machinery.

Sunday, Jan. 3, 5.50 p.m. Still.

Freight yard, Boston & Albany R. R. Car of lumber. Loss, trifling. Cause, incendiary.

Thursday, Jan. 7, 12.50 p.m. Still.

No. 32-36 Brattle Street. Owned by T. H. Brewer. Loss, $10. Insurance, $5,000. Occupied by A. M. Darling as hotel. Loss, $20. Insurance, $2,000. Cause, unknown. Originated in a bedroom.

Thursday, Jan. 7, 1.25 p.m. Still.

No. 547 Main Street. Owned by D. A. Buckley. Occupied as club room. Loss, trifling. Cause, stove-pipe running through closet.

Thursday, Jan. 14, 2.39 a.m. Box 17.

No 51 Washington Street. Owned by James Marsden. Loss, $485. Insurance, $2,000. Occupied by S. C. Wood as grocery. Loss, $550. Insurance, $650. Cause, unknown.

Thursday, Jan. 14, 7.05 a.m. Box 17.

No. 57 Washington Street. Cause, rekindling of fire. Alarm needless.

Saturday, Jan. 16, 12.35 p.m. Box 29.

No. 19 Vandine Street. Owned by J. W. Hammond. Loss, $200. No insurance. Occupied by Patrick Finley as stable. Loss, $1,390. Insurance, $1,950. — No. 17 Vandine Street. Owned and occupied by Joaquin Cebeceira as dwelling. Loss, $100. Insurance, $2,000. Originated in the stable. Cause, overheated stove.

Monday, Jan. 18, 12.20 p.m. Still.

Second Street. Keeler & Co.'s furniture manufactory. Cause, accidental automatic alarm.

Wednesday, Jan. 20, 7.34 p.m. Box 32.

No. 3 Lincoln Place. Owned by Mason Davis. Loss, $450. Insurance, $800. Occupied by F. H. Teele as soap manufactory. Loss, $1,000. Insurance, $3,000. Originated in the boiler-room. Cause, sparks from furnace.

Thursday, Jan. 21, 8.25 p.m. Still.

Rear Brookline Street. Owned by Norcross Bros. as haystack. Cause, set afire by boys.

Sunday, Jan. 24, 6.32 p.m. Box 36.

No. 609 Main Street. Owned by Edward Hyde estate. Loss, $890. Insurance, $21,000. Occupied by D. W. Hyde & Co. as dry goods. Loss, $6,644. Insurance, $9,000. Occupied by Joseph Brignoli as fruit store. Loss, $40. No insurance. Originated in the cellar near furnace. Cause, unknown.

Sunday, Jan. 24, 7.30 p.m. Still.

Freight yard, Boston & Albany R. R. Car of laths. Loss, trifling. Cause, incendiary.

Tuesday, Jan. 26, 6.53 p.m. Box 153.

No. 25 Dyke Street. Owned by Thomas Stearns. Occupied by several families as dwellings. No loss. Cause, soot in chimney taking fire.

Tuesday, Jan. 26, 6.59 p.m. Box 36.

No. 125 Austin Street. Owned by E. F. Bowker. Occupied by Henrietta Parr as dwelling. Loss, trifling. Cause, oil stove taking fire.

Wednesday, Jan. 27, 5.30 p.m. Still.

Freight yard, Boston & Albany R. R. Car of lumber, owned by George W. Gale Lumber Co. Loss, trifling. Cause, incendiary.

Thursday, Jan. 28, 7.14 p.m. Box 73.

No. 21 Jackson Street. Owned by C. F. Farnum. Loss, $300. Insurance, $200. Occupied by C. F. Farnum as stable. Loss, $100. Insurance, $300. Cause, incendiary.

Friday, Jan. 29, 5.50 p.m. Still.

Freight yard, Boston & Albany R. R. Car of lumber, owned by George W. Gale Lumber Co. Loss, $10. No insurance. Cause, incendiary.

Sunday, Jan. 31, 12.05 a.m. Box 26.

No. 407 Main Street. Owned by James Smith. Loss, $328. Insurance, $1,000. Occupied by Olaf Thorp as furniture store. Loss, $768. Insurance, $2,000. Originated in a water closet. Cause, unknown.

Sunday, Jan. 31, 12.05 p.m. Still.

Freight yard, Boston & Albany R. R. Car of lumber, owned by Furbur, Stockford & French. Loss, trifling. Cause, incendiary.

## FEBRUARY.

Wednesday, Feb. 3, 6.36 p.m. Box 31.

No. 12 Hunting Street. Owned by Martin Dynan. Loss, $85. Insurance, $1,100. Occupied by John Shuler as cooper. Loss, $25. No insurance. Cause, hot coals from stove.

Sunday, Feb. 7, 4.35 p.m. Still.

No. 537 Main Street. Owned by Samuel James heirs. Occupied by Aaron & Parker as cigar store. Originated in switch box of electric light wire. Loss, trifling.

Saturday, Feb. 13, 8.49 a.m. Box 43.

No. 145 Banks Street. Owned by James Huntington. Occupied by several families. Loss, trifling. Cause, thawing out water pipe.

Saturday, Feb. 13, 5.43 p.m. Box 2.

Rear Bridge Street. Owned and occupied by Charles Linehan as harness shop. Originated in the roof. Loss, trifling. Cause, overheated stove pipe.

Sunday, Feb. 14, 12.15 a.m. Still.

No. 20 Warren Street. Owned by Michael McGrath. Loss, $22. Insurance, $3,000. Occupied by Michael Kirby as dwelling. Loss, $15. No insurance. Originated in a bedroom. Cause, unknown.

Sunday, Feb. 14, 5.31 a.m. Box 82.

No. 7 Highland Street. Owned by H. N. Tilton. Loss, $2,500. Insurance, $2,000. Occupied by H. N. Tilton as stable. Loss, $500. No insurance. Owned and occupied by H. N. Tilton as dwelling. Loss, $225. Insurance, $7,000. Originated in the stable. Cause, unknown.

Tuesday, Feb. 16, 8.45 p.m. Still.

No. 195 North Avenue. Owned by A. C. Potter. Occupied by W. F. Henderson as furniture store. Loss, $40. Insurance, $900. Cause, supposed by dropping a lighted match into bedding.

Thursday, Feb. 18, 9 a.m. Still.

No. 395 Main Street. Owned by Bridget McCormick as dwelling. Loss, $15. Insurance, $3,000. Cause, thawing out water pipe.

Friday, Feb. 19, 8.30 p.m. Box 153.

Dyke Street. Owned by Zebar Hayden as carpenter shop. Loss, trifling. Cause, incendiary.

Saturday, Feb. 20, 5.30 p.m. Box 63.

Garden Street. Occupied as church. Cause, smoke mistaken for fire.

Monday, Feb. 22, 4.40 a.m. Box 53.

No. 34 Holyoke Street. Owned by J. J. Williams. Loss, $1,391. Insurance, $4,000. Occupied by William Orr as dwelling. Loss, $254. Insurance, $1,000. Originated in the cellar near furnace. Cause, unknown.

Sunday, Feb. 28, 9.59 p.m. Box 26.

No. 387 Main Street. Cause, smoke mistaken for fire.

Monday, Feb. 29, 8.59 p. m. Box 26.

No. 370 Main Street. Owned by Howe estate. Loss, $110. Insurance, $500. Occupied by J. F. McCabe as dwelling. Loss, $30. Insurance, $500. Cause, incendiary.

MARCH.

Wednesday, Mar. 2, 11.20 a.m. Still.

Second Street. Keeler & Co.'s furniture manufactory. Cause, accidental automatic alarm.

Friday, Mar. 4, 11.24 a.m. Box 31.

No. 45 Harding Street. Owned by E. H. Blake. Occupied by several families as dwellings. No loss. Cause, soot in chimney taking fire.

Friday, Mar. 4, 4.31 p.m. Box 15.

No. 115 Fourth Street. Owned by J. L. Fay. Occupied by Mary Boyle as dwelling. No loss. Originated in the cellar amongst rubbish. Cause, child and matches.

Saturday, Mar. 5, 8.01 p.m. Box 38.

No. 86 Allston Street. Cause, smoke mistaken for fire.

Friday, Mar. 11, 3.29 p.m. Box 7.

No. 122 Third Street. Owned by J. L. Fay. Occupied by George Dailey as dwelling. No loss. Cause, pan of fat taking fire.

Tuesday, Mar. 15, 2.52 p.m. Box 36.

No. 609 Main Street. Owned by Edward Hyde estate. Occupied by Joseph Brignoli as fruit store. No loss. Cause, unknown.

Thursday, Mar. 17, 6.10 p.m. Box 31.

South Street. Fire in Somerville. Assistance rendered.

Monday, Mar. 21, 11.45 a.m. Box 59.

College yard, University Hall. Owned by Harvard College. Occupied as recitation room. Loss, trifling. Originated in waste paper box. Cause, unknown.

Monday, Mar. 21, 3.21 p.m. Box 26.

No. 343 Main Street. Owned by G. F. Wentworth. Loss, $88. Insurance, $2,500. Occupied by Jacob Hauffman as shoe store. Loss, $175. Insurance, $700. Cause, child and matches.

Tuesday, Mar. 22, 12.13–12.19–12.27 a.m. Box 168.

No. 232 North Avenue. Owned by Henderson Bros. Loss, $31,425. Insurance, $29,775. Occupied by Henderson Bros. as carriage manufactory. Loss, $91,810. Insurance, $60,925. — No. 228 North Avenue. Occupied by J. W. Hunnewell as variety store. Loss, $2,300. Insurance, $800.— No. 226 North Avenue. Occupied by J. J. Hill as provisions. Loss, $1,867. Insurance, $900. — No. 224 North Avenue. Occupied by G. A. Frost as artist. Loss, $3,300. Insurance, $600. — No. 222 North Avenue. Occupied by Eleazer Robbins as barber. Loss $275. Insurance, $200. — No. 220 North Avenue. Occupied by W. B. Kneeland as plumber. Loss, $600. Insurance, $200. — No. 220 North Avenue. Occupied by T. H. Dolhenty as express office. Loss, $2,000. Insurance, $400. — No. 218 North Avenue. Occupied by David Young as slater. Loss, $300. No insurance. — No. 216 North Avenue. Occupied by J. P. Shurtleff as jeweller. Loss, $1,500. Insurance, $1,200. — No. 214 North Avenue. Owned by Daniel Forbes. Loss, $200. Insurance, $200. Occupied by Michael Whalen as dwelling and variety store. Loss, $900. Insurance, $500.

Nos. 5–7 Hadley Street. Owned by Daniel Forbes. Loss, $362. Insurance, $3,000. Occupied by S. B. Green as dwelling. Loss, $275. Insurance, $1,600. Occupied by Elihu Wilder as dwelling. Loss, $400. Insurance, $600. — No. 13 Hadley Street. Owned by Daniel Forbes. Loss, $1,400. Insurance, $1,500. Occupied by Leonard Bosworth as dwelling. Loss, $50. No insurance.— Nos. 17–19 Hadley Street. Owned by Daniel Forbes. Loss, $550. Insurance, $2,000. Occupied by R. D. Harper as dwelling. Loss, $100. Insurance, $500. Occupied by J. B. Higgins as dwelling. Loss, $110. Insurance, $600. — North Avenue. Owned by the city of Cambridge. Loss, $400. No insurance. Occupied as engine house.

No. 8 Russell Street. Owned by W. W. Teele. Loss, $228. Insurance, $2,500. Occupied by W. W. Teele as dwelling. — No. 10 Russell Street. Owned and occupied by S. M. Parsons as dwelling. Loss, $100. Insurance, $2,000. Owned and occupied by S. M. Parsons as barn. Loss, $48. Insurance, $200. Originated in the carriage manufactory. Cause, unknown.

Wednesday, Mar. 23, 5.25 p.m. Box 16.

No. 114 Broadway. Owned by G. W. Gleason. Unoccupied. Originated in the cellar amongst straw. No loss. Cause, children and matches.

Monday, Mar. 28, 8.03 a.m. Box 135.

No. 149 Austin Street. Owned and occupied by M. L. Heywood as dwelling. Loss, $20. Insurance, $3,500. Originated in roof of L. Cause, sparks from chimney.

Monday, Mar. 28, 1.25 p.m. Still.

No. 12 Warren Street. Owned by James Leitch. Occupied by J. J. Kenefick as dwelling. Loss, trifling. Originated in a bedroom. Cause, child and matches.

Tuesday, Mar. 29, 6.40 p.m. Box 28.

Broadway. Owned and occupied by Boston Woven Hose Co. Loss, trifling. Cause, ignition of naphtha.

Tuesday, Mar. 29, 11.02 p.m. Box 23.

No. 28 Brookline Street. Owned by A. J. Sawyer. Loss, $87. Insurance, $300. Occupied by Wm. Conroy as shoemaker. Loss, $20. No insurance. Cause, breaking of a kerosene oil lamp.

APRIL.

Friday, April 1, 7.52 a.m. Box 6.

First Street. Cause, kettle of tar taking fire.

Saturday, April 2, 6.36 p.m. Box 74.

Rear of Dublin. Alarm given because of an accident on the Fitchburg railroad.

Saturday, April 2, 2.05 a.m. Box 71.

Fire in Arlington. Ropewalk. The alarm was given by a police officer who supposed the fire was in Cambridge.

Sunday, April 3, 2.50 p.m. Box 73.

Spruce Street. Cause, burning grass in Catholic Cemetery.

Thursday, April 7, 3.45 p.m. Box 31.

Winsor Street. Burning of an outhouse. No loss. Set afire by boys.

Thursday, April 7, 7.17 p.m. Box 2.

Rear Prison Point Street. Owned and occupied by Boston & Maine Railroad Company as engine house. Loss, trifling. Originated in the roof. Cause, sparks.

Thursday, April 7, 9.25 p.m. Box 73.

Rear No. 7 Day Street. Owned by Ellen O'Connell. Loss, $700. Insurance, $800. Occupied by Ellen O'Connell as ropewalk. Loss, $300. Insurance, $300. — No. 14 Jackson Street. Owned by Dennis Murphy. Loss, $183. Occupied by Michael Connor as dwelling. Loss, $75. Insurance, $500. Originated in ropewalk. Cause, unknown.

Saturday, April 9, 12.02 a.m. Box 7.

Rear Munroe Street. Owned by Anna Hermons. Loss, $200. Insurance, $1,300. Unoccupied dwelling Binney Street. Owned by Hermons & Emery. Loss, $600. Insurance, $6,000. Unoccupied dwellings Binney Street. Owned by Hermons & Emery. Loss, $412. Insurance, $6,000. Unoccupied dwellings. Cause, incendiary.

Sunday, April 10, 1.18 a.m. Box 72.

No. 43 Harvey Street. Owned by J. F. Bresnahan. Loss, $400. Insurance, $2,200. Occupied by several families as dwellings. Loss, trifling. Cause, incendiary.

Sunday, April 10, 5.31 a.m. Box 52.

No. 835 Main Street. Owned by G. W. Chaplin. Loss, $155. Insurance, $2,000. Occupied by Israel Hirschberg as dry goods. Loss, $1,194. Insurance, $1,600. Originated in a closet in rear of store. Cause, unknown.

Sunday, April 10, 11.02 a.m. Box 32.

No. 141 Elm Street. Owned by Hanna O'Connor. Occupied by several families. No loss. Cause, soot in chimney taking fire.

Monday, April 11, 11.35 a.m. Box 121.

Rear Brookline Street. Owned by Norcross Bros. Loss, trifling. Burning of grass and lumber. Cause, set afire by boys.

Wednesday, April 13, 1.33 p.m. Box 6.

Third Street. Owned by Fisher estate. Occupied by W. H. Wood & Co. as lumber shed. Loss, trifling. Originated on the roof. Cause, sparks from tug-boat.

Wednesday, April 13, 9.12 p.m. Box 72.

No. 43 Harvey Street. Owned by J. F. Bresnahan. Loss, $200. Insurance, $2,200. Unoccupied dwellings. Cause, incendiary.

Friday, April 15, 5.49 p.m. Box 53.

No. 29 Holyoke Street. Owned by O. C. Shephard. Occupied by several parties. No loss. Cause, soot in chimney taking fire.

Sunday, April 17, 7.55 p.m. Still.

Freight yard, Boston & Albany R. R. Car of lumber owned by W. H. Wood & Co. Loss, $15. No insurance. Cause, incendiary.

Monday, April 18, 8.01 a.m. Box 36.

No. 149 Austin Street. Owned by M. L. Heywood. Loss, $100. Insurance, $3,500. Occupied by M. L. Heywood as dwelling. Loss, $35. Insurance, $1,000. — No. 151 Austin Street. Owned by E. E. Maguire. Loss, $90. Insurance, $4,000. Occupied by Francis Maguire as candle manufactory. Loss, $45. Insurance, $2,600. Originated on roof of L. Cause, sparks from chimney.

Tuesday, April 19, 7.40 a.m. Box 68.

Allen Street. Owned by Francis Ivers. Loss, $15. Insurance, $2,000. Occupied by F. Ivers & Son as blacksmith. Loss, $50. Insurance, $500. Originated on the roof. Cause, sparks from chimney.

Wednesday, April 20, 11.55 a.m. Box 24.

No. 4 Lawrence Street. Owned by Eliza McCann. Occupied by Alfred Mather as dwelling. Loss, trifling. Cause, pot of meat taking fire.

Thursday, April 21, 8.05 a.m. Box 13.

No. 59 Gore Street. Owned by L. M. Palmer. Loss, $150. Insurance, $600. Occupied by John Hannum as dwelling. Originated in the attic Cause, rats and matches.

Thursday, April 21, 10.19 a.m. Box 6.

Rear Third Street. Owned by J. C. Ayer. Occupied by John Collins as granite works. Loss, trifling. Originated on the roof. Cause, sparks.

Thursday, April 21, 6.32 p.m. Box 12.

Fire in Fitchburg Railroad freight yard, Somerville. Engine Co. No. 3 rendered assistance.

Monday, April 25, 6.35 a.m. Box 168.

Fire in Somerville. Stables on Elm Street. Engine Co. No. 4 rendered assistance.

Tuesday, April 26, 12.22 a.m. Box 68.

No. 190 North Avenue. Owned by Francis Ivers. Loss, $325. Insurance, $4,000. Occupied by Hing Lee as laundry. Loss, trifling. — No. 184. Occupied by C. S. Whitman as boots and shoes and tailor. Loss, $175. Insurance, $5,000. Originated outside of building in rear of laundry. Cause, hot ashes.

Friday, April 29, 8.06 a.m. Box 87.

No. 197 Lake View Avenue. Owned and occupied by Charles Butcher as manufacturer of floor polish. Loss, trifling. Cause, ignition of kettle of turpentine.

Saturday, April 30, 4.46 p.m. Box 2.

Craigie's Bridge. Owned by cities of Boston and Cambridge. Loss, $40. No insurance. Occupied by A. W. Tornrose & Co. as blacksmith. Loss, $175. Insurance, $300. Cause, hot coals from forge.

MAY.

Sunday, May 1, 10.16 a.m. Box 35.

No. 15 Tremont Street. Owned by B. F. Brooks estate. Loss, $245. Insurance, $1,500. Occupied by M. B. Marks as dwelling. Loss, trifling. Originated on the roof. Cause, sparks from chimney.

Sunday, May 1, 5.30 p.m. Still.

Freight yard, Boston & Albany R. R. Car of lumber, owned by Goorge G. Page Box Co. Loss, $15. No insurance. Cause, incendiary.

Saturday, May 7, 7.05 p.m. Still.

State Street. Owned and occupied by M. E. Rideout as wood-working establishment. Loss, trifling. Originated in drying-room. Cause, unknown.

Wednesday, May 11, 6.02 p.m. Box 35.

No. 41 Essex Street. Owned and occupied by E. L. Cheaney as dwelling. Loss, trifling. Cause, gas jet setting fire to curtain.

Wednesday, May 11, 10.45 p.m. Box 17.

No. 80 Hastings Street. Owned by C. J. Moore. Loss, $175. Insurance, $1,300. Unoccupied dwelling. Originated in a closet. Cause, incendiary.

Thursday, May 12, 12 p.m. Box 17.

No. 80 Hastings Street. Cause, rekindling of fire.

Sunday, May 15, 11.34 a.m. Box 4.

No. 5 Lambert Street. Cause, smoke mistaken for fire.

Wednesday, May 18, 10.03 a.m. Box 14.

No. 13 Ninth Street. Owned by Charles Linehan. Occupied by Mary Ryan as dwelling. Loss, trifling. Originated in a bedroom. Cause, unknown.

Sunday, May 22, 3.24 a.m. Box 6.

Third Street. Owned and occupied by New England Telegraph and Telephone Co. as an electric wire cable box. Loss, trifling. Cause, unknown.

Tuesday, May 24, 7.50 p.m. Box 136.

Austin Street. Cause, burning of an electric light pole. Alarm needless.

Tuesday, May 24, 8.40 p.m. Still.

Freight yard, Boston & Albany R. R. Car of lumber, owned by Charles Page & Co. Loss, $75. No insurance. Cause, incendiary.

Wednesday, May 25, 4.30 p.m. Still.

No. 68 Boylston Street. Owned and occupied by Nattie McLean as stable. Loss, $300. No insurance. Originated on the roof. Cause, sparks.

Wednesday, May 25, 10.57 p.m. Box 43.

Banks Street. Cause, the alarm given by some malicious person.

Thursday, May 26, 11.41 p.m. Box 14.

No. 3 Gore Place. Owned by John Lane estate. Loss, $44. Insurance, $1,500. Occupied by Margaret Wilson as dwelling. Loss, $20. No insurance. Originated in an unused attic chamber. Cause, unknown.

Sunday, May 29, 9.20 p.m. Still.

Freight yard, Boston & Albany R. R. Owned by Boston & Albany R. R. Company as freight car. Loss, $100. Insurance, $100. Occupied by Woodward & Mason as box shooks. Loss, $150. No insurance. Cause, incendiary.

Tuesday, May 31, 8 a.m. Still.

No. 65 Oak Street, Somerville. Engine Co. No. 5 rendered assistance.

JUNE.

Friday, June 3, 3.30 a.m. Still.

Freight yard, Boston & Albany R. R. Owned by Boston & Albany R. R. Company as freight car. Loss, $100. Insurance, $100. Occupied by George W. Gale Lumber Co. as lumber. Loss, $66. Insurance, $66. Cause, incendiary.

Saturday, June 4, 11.03 a.m. Box 17.

No. 108 Hastings Street. Owned and occupied by M. E. Tasco as dwelling. No loss. Originated in woodbox near stove. Cause. unknown.

Saturday, June 4, 11.21 a.m. Box 17.

No. 92 Harvard Street. Owned by Alexander Richards. Loss, $48. Insurance, $3,000. Occupied by George Henry as dwelling. Loss, $25. No insurance. Originated in a closet. Cause, child and matches.

Sunday, June 5, 7.20 a.m. Box 2.

Rear Prison Point Street. Owned by Boston & Maine R. R. Company. Loss, $1,200. Insurance, $10,000. Occupied by Boston & Maine R. R. Company as coal and wood shed. Loss, $997. Insurance, $10,000. Originated in the roof. Cause, sparks from hoisting engine.

Monday, June 6, 5.54 p.m. Box 75.

Richdale Avenue. Owned by J. Sewell & Co. as shed. Loss, $75. No insurance. Occupied by A. H. Hews & Co. as storage. Loss, trifling. Owned by J. Sewell & Co. Loss, $100. Insurance, $500. Occupied by Alfred Baker as dwelling. Loss, trifling. Originated in the shed. Cause, children and matches.

Tuesday, June 7, 6.40 a.m. Box 165.

Garfield Street. Owned by J. A. Rollins. Loss, $616. Insurance, $1,500. Occupied by J. A. Rollins as stable. Loss, $45. Insurance, $1,100. Cause, unknown.

Thursday, June 9, 12.31 p. m. Box 45.

No. 44 Kinnaird Street. Owned by Ellen Egan as dwelling. No loss. Cause, soot in chimney taking fire.

Friday, June 10, 1.55 a.m. Box 31.

No. 15 Marion Street. Owned by Michael Regan. Loss, $25. Insurance, $1,500. Occupied by Jeremiah Scanlan as dwelling. Loss, $15. No insurance. Cause, dropping of a lighted match into a basket of clothes.

Saturday, June 11, 5.07 p.m. Box 28.

No. 4 Lilac Court. Owned by Mary Coughlin. Loss, trifling. Unoccupied dwelling. Originated on the roof. Cause, sparks.

Sunday, June 12, 10.15 p.m. Still.

No. 22 Fifth Street. Owned by Ellis estate. Occupied by B. M. Silva as dwelling. Loss, trifling. Cause, explosion of kerosene lamp.

Monday, June 13, 5.25 a.m. Box 49.

No. 4 Baldwin Court. Owned by A. B. Magahy. Occupied by several families as dwellings. No loss. Cause, soot in chimney taking fire.

Tuesday, June 14, 8.31 a.m. Box 7.

Rear No. 41 Charles Street. Owned by Ellen Conley. Occupied by Abram Menchan as dwelling. Loss, trifling. Originated in a closet. Cause, child and matches.

Tuesday, June 14, 8.45 p.m. Box 15.

No. 103 Fourth Street. Owned by Ellen Garvin. Occupied by Terrance Reeves as dwelling. No loss. Cause, breaking of a kerosene lamp.

Wednesday, June 15, 3.36 p.m. Box 223.

No. 10 Franklin Street. Owned and occupied by Morss & Whyte as wire works. No loss. Cause, pot of rubber cement taking fire.

Thursday, June 16, 12.20 p.m. Box 43.

No. 133 Banks Street. Owned by J. O. Bullard. Loss, $45. Insurance, $300. Unoccupied stable. Cause, incendiary.

Friday, June 17, 2.45 p.m. Box 87.

Concord Avenue. Owned by John Maloy. Occupied by several families as dwellings. Loss, trifling. Originated on the roof. Cause, sparks.

Tuesday, June 21, 10.15 p.m. Box 43.

No. 133 Banks Street. Owned by J. O. Bullard as stable. No loss. Unoccupied. Cause, incendiary.

Thursday, June 23, 10.02 p.m. Box 45.

No. 56 Jay Street. Owned by G. D. Chamberlain. Occupied by C. W. Lovering as dwelling. Loss, trifling. Cause, upsetting of a kerosene lamp.

Friday, June 24, 12.08 a.m. Box 32.

Fire in Somerville. Masonic Hall. Assistance called for. Engine Co. No. 5 and Ladder Co. No. 2 rendered assistance.

Friday, June 24, 1.22 a.m. Box 9.

No. 169 Bridge Street. Owned by J. F. Doherty. Loss, $30. Insurance, $1,800. Occupied by Margaret Sullivan as dwelling. Loss, trifling. Cause, explosion of kerosene lamp.

Sunday, June 26, 9 a.m. Still.

No. 72 Boylston Street. Owned by J. R. Pettingill. Occupied by C. H. Berry as machinist. No loss. Cause, hot ashes setting fire to floor.

Tuesday, June 28, 7.51 p.m. Box 31.

No. 22 Hunting Street. Owned and occupied by Michael Gill as stable. No loss. Cause, dropping of a lighted match into rags.

Wednesday, June 29, 1.40 p.m. Box 14.

No. 189 Gore Street. Owned and occupied by C. W. H. Moulton & Co. as ladder manufactory. Loss, trifling. Cause, sparks from boiler.

JULY.

Tuesday, July 5, 2.55 p.m. Box 7.

Third Street. The alarm was accidentally given by a fire alarm operator.

Tuesday, July 5, 4.37 p.m. Box 10.

First Street. Owned by N. D. Woodbury. Occupied by Underhill & Anderson as boiler room. No loss. Cause, sparks, setting shavings afire.

Tuesday, July 5, 9.20 p.m. Box 153.

No. 3 Dyke Street. Owned by Thomas Stearns. Loss, $400. Insurance, $500. Occupied by S. E. Tasco as stable. Loss, $50. No insurance. Cause, incendiary.

Thursday, July 7, 9.04 a.m. Box 65.

No. 9 Shepard Street. Owned by W. S. Hall. Occupied by Joseph Torry as dwelling. Loss, trifling. Originated on the roof. Cause, sparks.

Saturday, July 9, 5.15 p.m. Still.

No. 6 Pearl St. Owned by C. E. Watson. Occupied by James Brown as dye house. No loss. Cause, ignition of naphtha.

Monday, July 11, 1.39 a.m. Box 87.

No. 188 Lake View Avenue. Owned by H. C. Damon. Occupied by W. A. Quinn as dwelling. Loss, trifling. Cause, upsetting of acid.

Thursday, July 14, 11.51 p.m. Box 168.

Fire in Somerville. Hathaway building, Davis Square. Assistance called for. Engine Co.'s Nos. 1, 4, 5, and Ladder Co. No. 1 rendered assistance.

Friday, July 15, 12.06 a.m. Box 69.

Fire in Somerville. The alarm was given by mistake.

Saturday, July 16, 4.45 p.m. Still.

No. 259 Broadway. Owned by Daniel McCarthy as dwelling. No loss. Cause, soot in chimney taking fire.

Sunday, July 17, 3.49 a.m. Box 10.

First Street. Owned by N. D. Woodbury. Occupied by Underhill & Anderson as shaving room. No loss. Cause, sparks from boiler.

Tuesday, July 19, 12.03 a.m. Box 43.

Banks Street. Alarm given by some malicious person.

Tuesday, July 19, 8.02 p. m. Box 16.

Deacon Street. Owned by Cambridgeport Savings Bank as unoccupied coal shed. No loss. Cause, incendiary.

Thursday, July 21, 2.08 a.m. Box 89.

Rear Concord Avenue. Owned and occupied by Parry Bros. as brick manufactory. No loss claimed. Originated in drying kilns. Cause, overheated.

Friday, July 22, 8.31 a.m. Box 61.

No. 20 South Street. Owned by C. W. Lenox. Loss, $40. Insurance, $1,500. Occupied by John Doyle as dwelling. Originated on the roof. Cause, sparks.

Friday, July 22, 6.06 p.m. Box 9.

No. 32 Cambridge Street. Owned by I. G. Felt. Loss, $340. Insurance, $2,200. Occupied by Almon Brackett as carriage painter. Loss, trifling. Originated on the roof. Cause, sparks.

Saturday, July 23, 2.26 a.m. Box 71.

Cedar Street. Owned by Jasper Middleback as unoccupied barn. Loss, $200. Insurance, $200. Cause, incendiary.

Saturday, July 23, 8.01 p.m. Box 43.

No. 133 Banks Street. Owned by J. O. Bullard as unoccupied stable. No loss. Cause, incendiary.

Saturday, July 23, 11.23 p.m. Box 27.

No. 157 Harvard Street. Owned by Charles Ricker estate. Occupied by L. H. Johnson as provisions. Loss, trifling. Cause, heat from hanging lamp setting fire to woodwork.

Tuesday, July 26, 11.05 a.m. Still.

No. 8 Holt Avenue, Somerville. Engine Co. No. 5 rendered assistance.

Thursday, July 28, 3.25 p.m. Box 137.

Ballard Place. Owned and occupied by J. J. Blevins as stable. No loss. Originated in manure pile outside of stable. Cause, children and matches.

## AUGUST.

Friday, Aug. 5, 11.11 p.m. Box 43.

No. 133 Banks Street. Owned by J. O. Bullard as shed. Loss, trifling. Cause, incendiary.

Saturday, Aug. 6. 2.55 p.m. Box 43.

No. 109 Banks Street. Owned and occupied by Peter Burns as stable. Loss, trifling. Cause, set afire by children.

Sunday, Aug. 7, 10.10 p.m. Box 27.

No. 58 Cherry Street. Owned by C. B. Moller. Loss, $171. Insurance, $2,000. Occupied by C. B. Moller as stable. Loss, trifling. Owned by C. B. Moller as dwelling under construction. Loss, $56. Insurance, $2,000. Originated in the stable Cause, unknown.

Thursday, Aug. 11, 10.13 p.m. Box 153.

No. 3 Dyke Street. Owned by Thomas Stearns as stable. No loss. Unoccupied. Cause, incendiary.

Thursday, Aug. 18, 12.06 a.m. Box 26.

Moore Street. Owned by M. E. Mahoney as awning. Loss, trifling. Cause, dropping of a lighted match from window.

Sunday, Aug. 21, 12.30 a.m. Box 34.

No. 114 Hampshire Street. Owned by James Leahy. Loss, $200. Insurance, $700. Occupied by William McMillan as provisions. No loss. Originated in the cellar amongst rubbish. Cause, unknown.

Monday, Aug. 22, 5.12 p.m. Box 21.

Sidney Street. Owned by T. H. O'Hara as haystack. Loss, $10. Cause, child and matches.

Tuesday, Aug. 23, 4.22 p.m. Box 63.

No. 18 Willard Street. Owned by E. L. Dana. Loss, $273. Insurance, $1,500. Occupied by Joseph Keely as dwelling. Loss, $75. No insurance. Originated in attic of L amongst old clothing. Cause, mice and matches.

Friday, Aug. 26, 9.40 a.m. Still.

No. 286 Green Street. Owned and occupied by Bridget Stevens as dwelling. No loss. Cause, soot in chimney taking fire.

## SEPTEMBER.

Thursday, Sept. 1, 2.38 a.m. Box 48.

No. 170 Hampshire Street. Owned by H. O. Bright. Loss, $1,250. Insurance, $2,500. Occupied by T. H. Scrotton as variety store. Loss, $850. Insurance, $1,000. Cause, unknown.

Thursday, Sept. 1, 9.29 a.m. Box 12.

No. 4 Winter Street. Owned by Charles Linehan as dwelling. No loss. Originated amongst rubbish in unoccupied cellar. Cause, children and matches.

Friday, Sept. 2, 9.07 a.m. Box 16.

Nos. 37–41 Harvard Street. Owned and occupied by F. H. Holton & Co. as copper works. No loss. Originated on the roof. Cause, sparks.

Sunday, Sept. 4, 7.19 p.m. Box 59.

No. 27 Boylston Street. Owned by Read estate. Occupied by D. J. Wilder & Co. as stoves, etc. Loss, trifling. Originated on outside of building. Cause, unknown.

Tuesday, Sept. 6, 12.41 p.m. Box 14.

No. 545 Cambridge Street. Owned by John McGovern. Occupied by W. B. Hazlewood as dwelling. Loss, trifling. Cause, defective flue.

Wednesday, Sept. 7, 7.01 p.m. Box 32.

No. 104 Webster Avenue. Owned by E. H. Norton. Occupied by Nathaniel White as dwelling. No loss. Cause, soot in chimney taking fire.

Thursday, Sept. 8, 3.51 p.m. Box 73.

Rear Dublin Street. Owned and occupied by Fitchburg R. R. Company as shed for the keeping of oil. Loss, trifling. Cause, unknown.

Saturday, Sept. 10, 10.46–10.54 p.m. Box 74.

Fitchburg Railroad. Alarms given because of collision between a freight and passenger train at West Cambridge Station. Loss by fire trifling.

Monday, Sept. 12, 6.24 a.m. Box 16.

Deacon Street. Owned by Cambridgeport Savings Bank as unoccupied coal shed. No loss. Cause, incendiary.

Tuesday, Sept. 13, 9.27 p.m. Box 152.

No. 25 Arrow Street. Owned by Lake & Moynahan. Occupied by John Delaney as stable. No loss Originated in the hay-loft. Cause, unknown.

Sunday, Sept. 18, 10.05–10.10 p.m. Box 59.

Rear 16 Boylston Street. Owned by Read estate. Occupied by W. J. Edwards as paint shop. Loss, trifling. Cause, unknown. The second alarm was unauthorized.

Sunday, Sept. 18, 10.31 p.m. Box 75.

Waldron Street. The alarm given because of the falling of a building. No loss by fire.

Monday, Sept. 19, 4.20–4.26. Box 92.

Mt. Auburn Street. Owned and occupied by Fitchburg R. R. Company as passenger station. Loss, $585. Insurance, $1,000. Originated in the coal bin under the building. Cause, unknown.

Sunday, Sept. 25, 12.18 a.m. Box 43.

Banks Street. False alarm given by some malicious person.

Sunday, Sept. 25, 7.31 p.m. Box 16.

Deacon Street. Owned by Cambridgeport Savings Bank as unoccupied coal shed. No loss. Cause, incendiary.

Sunday, Sept. 25, 9.28 p.m. Box 16.

Deacon Street. Cause, rekindling of fire.

Wednesday, Sept. 28, 11.16 a.m. Box 7.

No. 56 Charles Street. Owned by G. A. Patten. Loss, $481. Insurance, $1,100. Occupied by John Conway as dwelling. Loss, $100. No insurance. Owned and occupied by G. A. Patten as shed and stable. Loss, $90. Insurance, $100. — No. 58 Charles Street. Owned by M. F. Martin. Loss, $425. Insurance, $1,500. Occupied by M. F. Martin as dwelling. Loss, trifling. Originated in the shed. Cause, children and matches.

Thursday, Sept. 29, 12.02 a.m. Box 79.

No. 18 Brown Street. Owned and occupied by Owen Carney as dwelling. Loss, trifling. Originated in a bedroom. Cause, fire from a tobacco pipe.

Thursday, Sept. 29, 5.57 p.m. Box 43.

No. 133 Banks Street. Owned by J. O. Bullard. Loss, $40. Insurance, $1,800. Unoccupied dwelling. Cause, incendiary.

Thursday, Sept. 29, 8.13 p.m. Box 24.

No. 26 Decatur Street. Cause, burning rubbish in yard.

## OCTOBER.

Sunday, Oct. 2, 10.35 a.m. Box 87.

Vassel Lane. Owned and occupied by N. M. Coffran as dwelling. Loss, $120. Insurance, $1,500. Originated on the roof. Cause, sparks.

Monday, Oct. 3, 7.10 p.m. Still.

No. 642 Cambridge Street. Owned by John Gillan. Loss, $18. Insurance, $4,000. Occupied by Mary O'Sullivan as varicty store. No loss. Cause, explosion of kerosene lamp.

Friday, Oct. 7, 6.22 p.m. Box 78.

No. 85 Concord Avenue. Owned by J. F. O'Brien. Occupied by James Carter as dwelling. Loss, trifling. Cause, explosion of kerosene lamp.

Sunday, Oct. 9, 4.10 p.m. Still.

Freight yard, Boston & Albany R. R. Car of lumber, owned by W. H. Wood & Co. Loss, trifling. Cause, incendiary.

Wednesday, Oct. 12, 6.39 p.m. Box 28.

Broadway. Owned and occupied by Boston Woven Hose & Rubber Co. Loss, trifling. Cause, ignition of naphtha.

Thursday, Oct. 13, 5.59 p.m. Box 26.

State Street. Owned and occupied by M. E. Rideout as planing mill. No loss. Cause, dust over the boiler taking fire.

Friday, Oct 14, 8.25 p.m. Box 16.

Deacon Street. Owned by Cambridgeport Savings Bank as unoccupied coal shed. No loss. Cause, incendiary.

Saturday, Oct. 15, 6.30–6.34–6.50 a.m. Box 10.

First Street. Owned by C. W. Munroe. Loss, $1,175. Insurance, $1,800. Occupied by D. C. Storr as furniture manufactory. Loss, $6,712. Insurance, $8,000. Originated in finishing room. Cause, unknown.

Saturday, Oct. 15, 4.10 p.m. Box 28.

Freight yard, Boston & Albany R. R. Car of lumber, owned by Sylvester Tower. Loss, trifling. Cause, incendiary.

Friday, Oct. 21, 12.41 p.m. Box 14.

No. 544 Cambridge Street. Owned by A. W. Blake. Loss, $108. Insurance, $1,000. Occupied by Patrick Raymond as fruit store. Loss, $50. No insurance. Cause, unknown.

Saturday, Oct. 22, 9.57 p.m. Box 31.

No. 644 Cambridge Street. Owned by Charles Linehan. Loss, $800. No insurance. Occupied by Haley & Houghton as stable. Loss, $200. No insurance. — No. 642 Cambridge Street. Owned by John Gillan. Loss, $110. Insurance, $4,000. Occupied by several families as dwellings. Loss, trifling. Originated in hay-loft of stable. Cause, unknown.

Monday, Oct. 24, 1.53 p.m. Box 6.

Deacon Street. Owned by Cambridgeport Savings Bank as an unoccupied coal shed. Loss, trifling. Cause, incendiary.

Friday, Oct. 28, 3.45 p.m. Box 41.

No. 117 Pleasant Street. Owned by D. A. Barbour et als. Loss, $486. Insurance, $3,000. Occupied by several families as dwellings. Loss, trifling. Originated on the roof. Cause, sparks.

Sunday, Oct. 30, 8.10 a.m. Box 6.

No. 2 Munroe Street. Owned by Anna Hermans. Occupied by John McIntire as dwelling. Loss, trifling. Originated in a bedroom. Cause, child and matches.

## NOVEMBER.

Friday, Nov. 4, 4.55 p.m. Box 68.

No. 190 North Avenue. Owned by Francis Ivers. Occupied by Felix Coyuzzo as fruit store. Loss, trifling. Cause, gasoline lamp taking fire.

Saturday, Nov. 5, 10.54 a.m. Box 39.

No. 177 Magazine Street. Owned by Emmons Hanscom. Loss, $175. Insurance, $3,000. Occupied by Emmons Hanscom as dwelling. Loss, $56. Insurance, $500. Originated in the cellar near furnace. Cause, unknown.

Monday, Nov. 14, 1.50 p.m. Box 2.

Prison Point Street. Cause, kettle of boiling tar taking fire.

Wednesday, Nov. 16, 6.20 p.m. Box 2.

Freight yard, Boston & Maine R. R. (Southern Division). Car of oil. Loss, trifling. Cause, unknown.

Sunday, Nov. 20, 12.01 p.m. Box 13.

No. 119 Fourth Street. Cause, smoke mistaken for fire.

Tuesday, Nov. 22, 3.27 p.m. Box 74.

No. 63 Railroad Street. Owned by Peter Welch as dwelling. Loss, trifling. Originated on the roof. Cause, sparks.

Tuesday, Nov. 22, 8.36 p.m. Box 53.

No. 25 Holyoke Street. Owned and occupied by G. C. Buckland as dwelling. No loss. Cause, soot in chimney taking fire.

Wednesday, Nov. 23, 5.13 p.m. Box 15.

No. 73 Sixth Street. Owned by Daniel Rindge estate. Loss, $60. Insurance, $1,000. Occupied by George Benz as dwelling. Loss, trifling. Originated in the cellar. Cause, dropping of a lighted match into shavings.

Thursday, Nov. 24, 5.12 p.m. Box 158.

No. 69 Harris Street. Owned by M. P. Saunders. Loss, $75. Insurance, $900. Occupied by Kenneth McKenzie as dwelling. Loss, trifling. Originated in woodbox near stove. Cause, unknown.

Sunday, Nov. 27, 9.50 a.m. Still.

No. 33 Inman Street. Owned by M. H. Trewargy. Occupied by M. E. Ramsdell as dwelling. Loss, trifling. Cause, child and matches.

Monday, Nov. 28, 5.21 p.m. Box 59.

College yard, Gray Hall. Cause, smoke from burning sulphur. Alarm needless.

Monday, Nov. 28, 5.43 p.m. Box 153.

No. 5 Dyke Street. Owned by Michael Shea. Loss, $300. Insurance, $300. Occupied by Michael Shea as stable. Loss, $100. No insurance. Owned and occupied by Michael Shea as dwelling. Loss, $50. Insurance, $1,500. Originated in the stable. Cause, unknown.

# FIRE ALARM TELEGRAPH.

## Location of Boxes.

2. Prison Point St., cor. Bridge.
2. Prison Point St. (duplicate).
4. Gore St., J. P. Squire's Works.
6. Third St., cor. Broadway.
6. W. B. Bridge, Transfer Station (duplicate).
7. Third St., cor. Bent.
8. Thorndike St., cor. Third.
9. Cambridge St., near First.
10. Thorndike St., near First.
12. Third St., cor. Winter.
12. North St., cor Water (duplicate).
13. Fourth St., Police Station No. 3,
14. Sixth St., cor. Cambridge.
15. Vine St., cor. Fifth.
16. Broadway, Greeley's Mill.
17. Washington St., cor. Brewery.
21. Sidney St., cor. Allston.
23. Pearl St., cor. Auburn.
24. Brookline St., cor. Valentine.
25. Lafayette Sq.
26. Main St., cor. Osborn.
27. Clark St., cor. Harvard.
28. Broadway, near Brewery.
29. Webster Ave., cor. Plymouth St.
31. Cambridge St., cor. Harding.
32. Columbia St., cor. Cambridge.
34. Hampshire St., cor. Columbia.
35. Harvard St., cor. Norfolk.
36. Main St., cor. Prospect.
37. Junction Pleasant and River Sts.
38. Magazine St., cor. Lake.
39. Magazine St., cor. Chestnut.
41. Pleasant St., cor. Fairmount.
42. Blackstone St., opp. Riverside Press.
43. Banks St., cor. Flagg.
45. Franklin St., cor. Soden.
46. Main St., cor. Hancock.
47. Broadway, cor. Antrim.
48. Inman Sq., Engine House No. 5.
49. Cambridge St., cor. Baldwin.
51. Broadway, cor. Ellery St.
52. Junction Main and Mt. Auburn Sts.
53. Mt. Auburn St., cor. Holyoke Pl.
54. Cambridge St., Memorial Hall.
56. Kirkland St., cor. Sumner.
57. Oxford St., cor. Mellen.
59. Harvard Sq., cor. Brattle St.
61. Brattle Sq., City Building.
62. Mt. Auburn St., cor. Hilliard.
63. Junction Brattle and Mason Sts.
64. Junction Concord Ave. and Garden St.
65. North Ave., cor Shepard St.
68. North Ave., near Railroad Bridge.
69. North Ave., cor. Day St.
71. North Ave., near Tannery.
72. Cedar St., cor. Dudley.
73. Spruce St., near Bay State Brick Yard.
74. Dublin St., cor. Railroad.
75. Walden St., cor. Raymond.
76. Walnut Ave., cor. Arlington St.
78. Concord Ave., cor. Sparks St.
79. Brattle St., cor. Sparks.
82. Brattle St., cor. Appleton.
83. Brattle St., cor. Elmwood Ave.
84. Lake View Ave., cor. Huron St.
87. Lake View Ave., near Concord Ave.
89. Concord Ave., near Hittinger's Ice House.
92 Mt. Auburn St., near Railroad Stable.
93. Locust St., cor. Cushing.
114. Ninth St., Goepper Bros.' Barrel Factory.
116. Broadway, Tower's Piano-key Factory.
121. Brookline St., cor. Chestnut.
125. Green St., F. A. Kennedy Co.'s Bakery
126. Pine St., cor. Washington.
134. Tremont St., cor. Hampshire, City Stable.
135. Harvard St., opp. Bigelow.
136. Norfolk St., cor. Austin.
137. Western Ave., cor. Howard.
152. Junction Main and Bow Sts.
153. Grant St., cor. DeWolf.
158. Oxford St., cor. Harris.
165. North Ave., opp. Linnæan St.
167. Linnæan St., cor. Avon.
168. North Ave., Engine House No. 4.
212. Kendall & Sons' Boiler Works, Main St. (private).
216. Ninth St., Rubber Factory Yard.
223. Franklin St., Morss & Whyte's Wire Works.
228. Broadway, Curtis Davis & Co.'s Soap Mfg.
242. Albro St., Electric Light Works.
264. Concord Ave., Cambridge Observatory.
271. North Ave., Railroad Stable.
371. Cambridge Almshouse.
427. Broadway, J. C. Davis & Sons' Soap Works.
55. Signal for no school.

# REPORT OF THE CHIEF OF POLICE.

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*To the Honorable the Mayor and the City Council of the City of Cambridge:—*

GENTLEMEN,—In compliance with the city ordinance, I have the honor to present my annual report of the work of the Police Department for the year ending Nov. 30, 1892.

The whole number of arrests for the year has been three thousand and forty-seven (3,047) against 2,312 last year.

| | |
|---|---|
| Males | 2,800 |
| Females | 247 |
| Adults | 2,600 |
| Minors | 447 |

The offences for which arrests have been made are as follows:

| | |
|---|---|
| Assault, mutual | 6 |
| Adultery | 8 |
| Assault and battery | 247 |
| Assault, felonious | 7 |
| Assault on officer | 18 |
| Arson | 1 |
| Bastardy | 7 |
| Breaking and entering | 41 |
| Bribery | 1 |
| Capias | 2 |
| Common drunkards | 26 |
| Concealing mortgaged property | 3 |
| Cruelty to animals | 4 |
| Common nuisances | 1 |
| Delirium tremens | 4 |
| Disturbing public peace | 110 |
| Disorderly conduct | 152 |
| Drunkenness | 1,674 |
| Default | 1 |
| Disturbance on steam train | 2 |
| Embezzlement | 7 |
| Escaped prisoners | 6 |
| Evading car fare | 8 |
| *Carried forward* | 2,336 |

| | |
|---|---|
| *Brought forward* | 2,336 |
| Exposure of person | 1 |
| Fast driving | 4 |
| False pretence | 7 |
| Forgery | 3 |
| Fornication | 2 |
| Gaming, or present at | 4 |
| Infanticide | 1 |
| Idle and disorderly | 2 |
| Insane | 44 |
| Illegal transportation | 3 |
| Illegal sale of liquor | 8 |
| Keeping liquor with intent to sell | 9 |
| Keeping unlicensed dog | 1 |
| Liquor nuisances | 34 |
| Larceny | 146 |
| Larceny from building | 7 |
| Lewd and lascivious | 6 |
| Making counterfeit money | 1 |
| Malicious mischief | 27 |
| Manslaughter | 2 |
| Murder | 2 |
| Non-support | 39 |
| Neglected children | 10 |
| Obstructing railroad train | 1 |
| Peddling without a license | 10 |
| Playing cards on the Lord's day | 14 |
| Profanity | 4 |
| Promoting a lottery | 2 |
| Robbery | 12 |
| Refusing to assist an officer | 3 |
| Safe keeping | 4 |
| Stubborn children | 10 |
| Stealing a ride | 9 |
| Suspicious persons | 26 |
| Surety of the peace | 5 |
| Selling leased property | 1 |
| Threatening | 17 |
| Truants | 7 |
| Trespass | 25 |
| Using unsealed measures | 1 |
| Vagrants | 48 |
| Violating city ordinances | 126 |
| Violating liquor law | 4 |
| Violating milk law | 10 |
| Walking on railroad track | 8 |
| Writing policy | 1 |
| Total | 3,047 |

| | | |
|---|---|---|
| Whole number of lodgers | | 126 |
| Males | 125 | |
| Females | 1 | |
| Adults | 126 | |
| Minors | 0 | |
| Amount of property reported stolen | | $11,732 20 |
| Amount of property reported recovered | | $8,257 00 |

## Miscellaneous Business.

| | |
|---|---|
| Accidents reported | 117 |
| Buildings found open and secured | 249 |
| Cases investigated | 932 |
| Dangerous buildings | 12 |
| Dangerous chimneys | 1 |
| Dead bodies found | 19 |
| Defective cesspools | 23 |
| Defective drains and vaults | 5 |
| Defective gas pipes | 3 |
| Defective water pipes | 196 |
| Defective hydrants | 4 |
| Defective lamps | 1,962 |
| Defective wires | 4 |
| Defective streets and sidewalks | 1,061 |
| Disturbances suppressed | 414 |
| Dogs killed | 74 |
| Extra duty done by officers (days) | 464 |
| Fire alarms given by officers | 48 |
| Fires extinguished without alarms | 23 |
| Intoxicated persons helped home | 12 |
| Lost children restored | 324 |
| Sick and injured persons assisted | 159 |
| Stray teams put up | 85 |
| Street obstructions removed | 72 |
| Water running to waste | 27 |

## City Property in Use by Police Department.

| | |
|---|---|
| 104 badges | $130 00 |
| 87 belts and billies | 108 75 |
| 8 books | 26 00 |
| 2 bookcases | 12 00 |
| 6 bedsteads | 30 00 |
| Bedding and blankets | 28 00 |
| 1 buggy | 150 00 |
| 2 bureaus | 3 00 |
| 7 clocks | 25 00 |
| 71 chairs | 100 00 |
| 5 carpets | 60 00 |
| 2 copying machines | 20 00 |
| *Amount carried forward* | $692 75 |

| | |
|---|---|
| *Amount brought forward* | $692 75 |
| 300 copies of Police Rules | 45 00 |
| 6 desks | 180 00 |
| 1 easy-chair | 15 00 |
| 4 flags | 60 00 |
| 4 horses | 600 00 |
| 5 harnesses | 150 00 |
| 4 horse blankets | 12 00 |
| 4 halters | 1 25 |
| 1 hat-rack | 50 |
| 6 inkstands | 3 00 |
| 1 ice hatchet and tongs | 1 00 |
| 23 lanterns | 23 00 |
| 1 letter scale | 75 |
| 3 lounges | 10 00 |
| 8 mirrors | 14 00 |
| 3 maps | 1 00 |
| 12 mats | 30 00 |
| 11 pairs handcuffs | 30 00 |
| 1 police van | 300 00 |
| 2 patrol wagons | 700 00 |
| 2 police signal systems | 8,000 00 |
| 1 pair of runners | 5 00 |
| 88 revolvers | 500 00 |
| Ropes and stakes | 15 00 |
| 3 robes (carriage) | 15 00 |
| 1 rogues gallery | 150 00 |
| 2 straps and weights | 1 50 |
| 8 spittoons | 4 00 |
| 1 sleigh | 40 00 |
| 4 stretchers | 6 50 |
| 3 saddles and bridles | 12 00 |
| 95 short billies | 42 50 |
| 1 safe | 200 00 |
| 3 stoves | 20 00 |
| 3 thermometers | 75 |
| 1 telephone line | 300 00 |
| 30 tin dippers | 7 00 |
| 30 towels | 5 00 |
| 4 tables | 15 00 |
| 2 umbrella stands | 2 00 |
| 1 wagon van (old) | 25 00 |
| 4 waste baskets | 1 50 |
| 4 water coolers | 6 00 |
| 1 wardrobe | 10 00 |
| 4 water pails | 1 00 |
| 1 wagon jack | 1 00 |
| Miscellaneous | 10 00 |
| Total | $12,265 00 |

| | |
|---|---|
| Total cost of the department for the year | $104,547 24 |
| Appropriation and estimated revenue | 108,500 00 |

## Expenditures.

| | |
|---|---|
| Badges | $24 50 |
| Belts and billies | 32 84 |
| Books | 121 35 |
| Boston Ice Co. | 8 15 |
| Buttons | 50 00 |
| Boarding horses | 583 00 |
| Carriage hire | 12 50 |
| Cambridge Gas Light Co. | 1,141 52 |
| Cambridge Electric Light Co. | 88 18 |
| Cleaning stations | 296 50 |
| Clipping horses | 6 00 |
| Cloth for the department | 640 62 |
| Coal and wood | 45 14 |
| Directories for department | 17 50 |
| Expressing | 8 00 |
| Fresh Pond Ice Co. | 26 07 |
| Gamewell Company | 318 90 |
| Hay and grain | 282 67 |
| Horse hire | 15 00 |
| Horses (2) | 317 20 |
| Medical attendance | 17 00 |
| Medicine | 11 85 |
| Municipal Signal Co. (Keys) | 7 50 |
| New England Telephone Co. | 645 33 |
| Printing | 91 30 |
| Photograph for rogues gallery | 19 00 |
| Policemen, services of | 91,283 96 |
| Repairs on wagons | 166 93 |
| Repairs on harnesses | 6 90 |
| Repairs on stable | 35 00 |
| Repairs on wagon house | 107 60 |
| Revolvers | 35 75 |
| Salary of Chief of Police | 1,769 10 |
| Salary of Captains and Chief Inspector | 4,992 00 |
| Shoeing horses | 87 45 |
| Stationery for department | 29 65 |
| Supplies for stations | 475 03 |
| Travelling expenses | 156 65 |
| Wiring stable, 4th Street | 40 60 |
| Rent of stable, 4th Street | 373 00 |
| West End Street R. R. (tickets) | 160 00 |
| Total | $104,547 24 |

| | |
|---|---|
| Expenditures | $104,547 24 |
| Receipts | 5,336 00 |
| Balance showing actual cost | $99,211 24 |
| Transferred to other departments | $575 00 |
| Balance unexpended | $3,377 76 |

### The Force.

The organization of the force consists of a chief, three captains, two inspectors, eight sergeants, seventy-eight patrolmen, four drivers of patrol wagons and two police matrons.

Two sergeants and nineteen patrolmen are on duty in the day-time; one sergeant as court officer and one sergeant at the Public Library, including two patrolmen, one at City Hall and one who has charge of Police Station 5. During the night-time there are six sergeants and fifty-nine (59) patrolmen on duty; two sergeants in each police district, one with each relief. The night sergeants at districts two and three come on duty with their respective reliefs, but stop in the station to take charge of the police signal system. Three patrolmen as house officers at stations one and five, two patrolmen in the wagon houses and fifty-four (54) patrolmen divided into two reliefs.

### Changes.

During the past year two (2) officers have died and one been discharged from the force, and ten (10) appointments were made, all under the civil service rules, thereby increasing the force seven (7) men.

### Matrons.

There have been two hundred and forty-seven (247) females arrested during the year and turned over to the matrons at station one, who have sole charge of them after the arrest. I will say they have performed their duty in a very able manner, to my entire satisfaction.

### No-license Law.

As in former years under the no-license law a determined effort has been made to suppress the illegal sale of liquors. Although the arrests for drunkenness have increased from eight hundred and eighty-five (885) last year to sixteen hundred and seventy-four (1,674) this year, we are satisfied in our own minds that the liquor was not pro-

cured in this city. A majority of the drunks were arrested while on their way from Boston, and most invariably a bottle of liquor would be found on their persons. In my opinion the present drunk law is the cause of the large increase in drunkenness.

### Police Cloth.

I have bought police cloth to the amount of $642.62 during the year. The money received from the sale has been turned into the city treasurer, and I now have cloth on hand to the value of eighty-two dollars ($82.00).

### Police Signal System.

The system has been introduced into police districts two and three and is in thorough working order, giving entire satisfaction, and will be introduced into police district one early in the coming year. I feel that with the signal system introduced into police district one and an increase of three officers, we should have a very efficient police force and our city would be as well protected as any city in the Commonwealth.

### Deaths.

Since my annual report of last year there have been removed from the ranks of the force by death, two of our old and trusted officers, ex-Captain Wm. Twist and William Nickelson. Captain Twist was connected with the police force for thirty-five years, being appointed in 1857. Patrolman Nickelson was appointed in 1874, making him eighteen years on the force.

### Conclusion.

In closing my report, I would not forget to acknowledge the counsel and assistance rendered me at all times by His Honor, the Mayor, and the committee on police, the confidence and coöperation of city officials generally, as well as the rank and file of the department who have so ably sustained me. Also to district attorney, P. H. Cooney, and assistant district attorney, Pevey, for their counsel and friendly advice, and tender to one and all who have in any way aided me my hearty thanks therefor. In the hope that the department as a whole may ever be able to present as clear a record as during the past year,

I am respectfully,

LOTHROP J. CLOYES,
*Chief of Police.*

During the cholera scare in our city in the past year, I was ordered by His Honor, the Mayor, to detail five officers, to report to the chairman of the Board of Health to act as health officers, and was obliged to detail special officers to take their places, the expenses of which were paid from my appropriation amounting to $425.00.

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Office of Board of Health, City Hall,
Dec. 9, 1892.

*Lothrop J. Cloyes, Esq., Chief of Police : —*

Dear Sir, — This Board desires herewith to make due acknowledgment of the efficient service rendered to the Health Department of this city, by the officers detailed by you in September last, for temporary duty as emergency agents of the Board of Health; namely, Lothrop J. Cloyes, Chief of Police, Captains Thomas H. Lucy, Mark J. Folsom and John F. Murray, and officers Brennan, McNamee, Murray, Scobey and Stevens. By the five officers last named, there were reported and ordered to be abated, eighty-nine offensive privy vaults and one hundred and ninety-eight inspections made of various premises, and nuisances maintained thereon, ordered to be abated.

Yours very truly,

JOHN McDUFFIE,
*Clerk of Board of Health.*

# REPORT OF THE BOARD OF HEALTH.

In compliance with the public statutes creating Boards of Health and defining their duties, we have the honor to make our annual report for the year ending Dec. 31, 1892.

We respectfully call the attention of your honorable body to the following list of complaints and nuisances investigated during the year :

| | |
|---|---|
| Full, overflowing and offensive privy-vaults | 869 |
| Open, defective and leaky privy-vaults | 98 |
| Filthy and defective privy-houses | 12 |
| Offensive and defective water-closets | 28 |
| Swill and garbage thrown into privy-vaults | 1 |
| No proper privy-vaults | 9 |
| Full and defective cesspools and catch-basins | 15 |
| Defective drainage, open and broken drains, etc. | 106 |
| No traps under sinks | 65 |
| Leaky and defective traps | 12 |
| Filthy yards | 161 |
| Swill, garbage, ashes, etc., in cellars and sheds | 11 |
| Filthy stables and cow-sheds | 9 |
| Manure in yards and on lots | 84 |
| Wet and damp cellars | 57 |
| Stagnant water on premises | 42 |
| Swine kept on premises | 12 |
| Miscellaneous | 155 |
| Total | 1,746 |

| | |
|---|---|
| Number of inspections made | 8,000 |
| Number of subsequent inspections | 3,300 |
| Total | 11,300 |

| | |
|---|---|
| Number of notices issued and recorded | 1,312 |
| Number of special notices issued | 148 |
| Orders of the Board served by constable | 413 |
| Rooms fumigated | 67 |
| Number of notices for treatment of contagious diseases sent out | 597 |
| Number of visits to premises where contagious diseases occurred during the year | 1,034 |
| Vaccinations | 502 |
| Privy-vaults abolished | 347 |

### Muller's Rendering Works.

This place has been for several years a source of anxiety to the Board, and the subject of frequent complaints. A petition signed by numerous citizens, many of whom had settled in the vicinity, was received last summer, praying for an abatement of the nuisance alleged to exist on these premises. After several examinations by the inspectors, a visit to the place by the full Board and two hearings on the subject, it was apparent that the only adequate relief was to be obtained by a discontinuance of the business at that location. The Board, therefore, determined that the premises were noxious and offensive, and that the public health and the public comfort and convenience required that the business of rendering on these premises should be discontinued, and notice to this effect was sent to the proprietor. This order was promptly complied with, the owner showing all willingness to abide by the decision of the Board.

### Night-Soil.

Owing to the restrictions placed on the carting of night-soil through the town of Arlington, and the possibility that similar rules might be enacted by other neighboring places, it seemed necessary to find some other way of disposing of all, or a part of the contents of the privy-vaults and cesspools yearly emptied in the city. After investigation of the subject, the Board decided to give a trial to the method of treatment known as the "Doughty" process, said to be in operation in Galveston, New Orleans, Philadelphia and Newark. It was determined that the period for this trial should expire on the first day of April, A. D. 1893, after which time, the provisions of the contract with the contractor for the removal of night-soil should be in force as before this modification was made. The premises assigned by the Board for unloading and treating the contents of the privy-vaults and cesspools of Cambridge are situated near the foot of Spruce Street, and lie between the Massachusetts Central Railroad, the Lexington Branch of the Boston & Lowell Railroad, and the old Arlington Branch Railroad.

There is nothing in this contract allowing the night-soil of any other place than Cambridge to be treated on the premises above specified.

### Charles River.

The Charles River has been a source of objectionable odors, and these have increased so much that the public are awake to the necessity for measures of relief. This city will be one of the last to have its sewage taken out of the river, and unfortunately bears, and must continue to bear during this interval, not only its own discomfort, but the blame of its neighbors also. The completion of the intercepting sewer, which is now begun within city limits, is a measure promising a great relief. The representatives of our city have always labored to hasten this relief and have never resisted the expense entailed.

Immediate and speedy action should be taken to make the changes needed to build return sewers from all present outlets back to the line of the State sewer, so that all will be in readiness to avail of its advantages without delay. We urge the City Council and the executive department charged with the matter, that the health of the people depends in a great degree on energetic action this year. We call attention to the importance of intercepting the Bridge Street sewer in such a way that the sewage of the pork-packing factories may not be mixed with the gutter water, but be carried separately to the intercepting sewer without the intervention of the automatic gate, which will turn all sewage into the river during rain or the melting of snow. We regret to make the record that the efforts following our recommendations in report for 1890 on this subject have resulted in no action during the two years in which the Metropolitan Commission have carried their sewer past these factories.

We are now in receipt of a letter from the authorities of Somerville, stating that no action in furtherance of our recommendation will be taken during 1893 by that city. We still hope that they may alter their determination.

Therefore we earnestly recommend that the sewer department be ordered to prepare plans and obtain the approval of the Metropolitan Commission thereto, that the Mayor be authorized to arrange with the Somerville authorities the execution of the work, and offer such share in the necessary expense to be borne by the city of Cambridge as in his judgment seems best. Also that legislative authority be sought to secure the end in view.

The sanitary condition of the river after the sewage is intercepted will be secured only by constant vigilance, supplemented by comprehensive plans for permanent improvement.

The metropolis, of which we are a part only, seems likely to set on foot measures of improvement which will have a great bearing on the ultimate condition of the banks. We welcome any proposals looking to the securing of public ownership and control of the shores. The magnitude of the undertaking, and its comprehensiveness, which is its chief advantage, seems likely to provide a practical relief as remote as half a generation hence. It must not be forgotten that the Park proposals now before the city government, admirable as they are, if they result in a two hundred feet parkway along the river front and do not secure the contemporaneous filling of the adjoining low land, would only create another nuisance where such lands were. If private owners of the shore were encouraged to build a sea wall and fill their lands for their own purposes, much would be gained for the public health.

The policy of the city, as applied in the concession granted, in 1885, to the Charles River Embankment Company, and others, that is, that no increase of taxes on vacant land would be made for ten years, while improvements were going on, might stimulate enterprises in other localities.

We recommend the public announcement of this policy. With river parks, constructed by public funds, and stimulated private enterprise, turning marsh and flats into residential high lands, the people of the next generation may enjoy as results, a measurably clean river.

Certainly our task is set to accomplish also, more immediate improvements, to study the resources at hand, and what may facilitate and aid the operation of the mighty forces which nature has provided.

We shall have, after the sewers now planned are in operation, a large surface of the common river flats covered with deposits from our sewers, the accumulations of many years. Fresh supply of sewage deposits will be mostly, not wholly, terminated.

The growth of the population, the stirring up of the deposits in the permanent improvements as they progress, will complicate the situation, but the immense cleansing power of the tide-water from the ocean, will operate on the side of good health. The sun, the winds, rain and frost will scatter and dissipate these sources of foul odors, rendering them less harmful, less pungent, and, let us hope, not seriously apparent to the senses of the people. To this end our efforts may be set; this is our task, to prevent further pollution, or rather to reduce all such to a minimum. It may be

that a river having sedge-growing banks of mud, and tide-washed flats, may be kept reasonably pure and sweet for a large population, by the powers conferred upon a board of health.

A practical effort to perform this task has been entered upon by this Board during the past year. We recommend that a more thorough and systematic prosecution be entered upon this year, and largely with a view to ascertain by experience what measures are successful, so that really energetic efforts may follow the operation of sewage interception.

The plan is to keep upon the river during eight or ten months of the year, a boat's crew or more of men, having instructions to clean up, bury, or hasten to the ocean any filth encountered; to inspect and report to the sewer department any faults of the sewer outlets, and to clear the channels leading from them to deep water; to inspect and report all pollutions of the river, with a view to their abatement; to spend the winter months in prosecuting this work on the shore. And, further, to have occasional general inspection by the Board itself, with accompanying experts, of the conditions, cause and cure of any offence on the river. We have kept such a party on the river for thirty-four days the past year. One general inspection was had. The record of the accomplishments is noted in a permanent book kept in our office, entitled the "Records of the River Patrol."

Last summer by the courtesy of Mayor Alger, five officers from the police force were placed at the service of the Board, who acted as special agents to enforce the necessary sanitary regulations in various sections of the city. All these agents did good service, and by their aid more work was accomplished than could otherwise have been done. We extend to His Honor, the Mayor, to the chief of police, to the captains of the precincts, and to the five special agents, our thanks for the help rendered to the Board at a trying time, and assure them of our appreciation of the benefits derived by the city from their action.

Some such arrangement may prove necessary next year should we be again threatened with an invasion of cholera. A well-equipped and efficiently administered quarantine at our seaboard cities, and along the inland frontier, will afford a certain amount of protection, but the history of epidemics of Asiatic cholera, if it teaches anything, teaches this, that to rely on this means of protection to the exclusion of the most careful supervision of the sanitary condition of our own surroundings is to expose ourselves to

the very visitation we desire so much to avoid. With regard to this disease, most authorities are agreed that the purity of the water supply is a matter of the first importance. It is fortunate for us that our water-shed is, through a large part of its area, thinly populated. But to neglect no means of security, it seems wise that some such measures as the following should be adopted:

That plans of the various districts of the Cambridge Water Supply be made under the supervision of the City Engineer, and that on these plans shall be indicated the manufactories, mills, slaughter-houses, pig-pens, dwellings, privy-vaults, and other buildings, the drainage of which might pollute any of the streams within said districts;

That the Water Board shall appoint one or more inspectors to act as a patrol of the various districts, who shall report each day to the Water Board all pollutions, and sources of pollution found within their districts;

Each inspector shall be supplied with plans of the districts identical with the plans in possession of the Water Board. The various sources of pollution shall be indicated by numbers attached to them, the same sources of pollution having the same numbers on all the plans, these numbers to be used by the inspectors in their daily reports;

That an arrangement be made with a physician living in some town within the drainage area to report to the Water Board all cases of communicable disease, especially such whose germs are believed to be water-borne, occurring within said area.

At the request of the acting President of the Water Board our medical inspector made an arrangement with Dr. Jackson, of Weston, for such reports as are referred to in the preceding sentence. This arrangement continued in force from September 13th to December 13th, during which period a number of cases of typhoid fever were reported occurring in such localities as to threaten the purity of the water supply had not means been taken to prevent such an unfortunate circumstance. Dr. Jackson took such precautions as were possible to prevent any pollutions reaching the streams.

Since December 13th this arrangement has been renewed for another three months.

The possible introduction of cholera into this country next year makes it imperative that prompt and decided action should be taken to enable us to deal efficiently with any cases that might occur in our city, and to afford to the inhabitants thereof every means of

protection that experience has proved to be valuable. The State Board of Health in its circular on Cholera, has advised that "the local Board of Health should provide a hospital where all cases which cannot be properly isolated at home should be cared for. The hospital should be provided with a furnace or crematory, removed from other buildings, where the excreta from patients, and old clothing may be burned, and a room should also be provided where bedding and clothing from the hospital and from other places can be exposed to prolonged heat at a temperature of at least 212° F." In the interest of the patients, we think that two or three small hospitals located in different parts of the city would be preferable to one large one, as the transportation of a person suffering from this disease any great distance would be fraught with danger.

We have employed since September, a clerk who keeps the office of the Board open all the time, receiving complaints, and arranging for the Medical Inspector his detail of inspectors assigned to each case, and their reports.

A complete card-index of localities showing the contagious diseases, complaints of nuisances, and wells in use has been made. This service will be more fully useful, as contemplated, if the City Council shall decide soon to leave the inspection of plumbing wholly to this Board.

Charles S. Lincoln, formerly Sanitary Inspector of this Board, died April 27, 1892. Up to the time of his last illness, he discharged the duties of his position faithfully and efficiently.

### Some Vital Statistics.

There were reported during the year, still-births and deaths of non-residents excluded, 1,439 deaths. This gives upon an estimated population of 74,644, a mortality per 1,000 living, at all ages, of 19.27. The mortality for the forty years, 1851 to 1890 inclusive, has been 19.48, ranging from a minimum of 15.87 in 1859, to a maximum of 24.16 in 1872.

During the year there were 73 and 109 deaths from Bronchitis and Pneumonia respectively, against 55 and 124 from the same diseases in 1891.

The year was fruitful in deaths from accidents, showing an increase of 11 over 1891, and of 6 over 1890. Premature Births also increased, 38 being reported this year against 20 in 1891, and 14 in 1890.

The death list presents as usual a large number of vague terms consisting mainly of the name of the terminal or most striking symptom of the disease, or of the mode of dying, as follows: Anæmia, Asthma, Atrophy, Convulsions, Debility, Dropsy, Hemorrhage, Inanition, Old Age, Teething. These terms are credited with a total of 143 deaths. There were in addition, 40 deaths which could only be classed under the heading, Unknown.

### Diphtheria.

There were reported during the year 130 cases, an increase of 15 from the previous year. Their distribution was as follows: Ward 1, cases 22, an increase of 8; Ward 2, cases 26, a decrease of 9; Ward 3, cases 31, an increase of 22; Ward 4, cases 44, an increase of 1; Ward 5, cases 7, a decrease of 7. The number of deaths was 49, an increase of 34. The Fatality, *i. e.*, the case Mortality, was the highest on record since we have had data for its calculation. There were also reported 7 deaths from Membraneous Croup.

### Scarlet Fever.

There were reported during the year 374 cases, an increase of 20 from the previous year. Their distribution was as follows: Ward 1, cases 55, a decrease of 4; Ward 2, cases 108, a decrease of 14; Ward 3, cases 81, an increase of 45; Ward 4, cases 95, a decrease of 10; Ward 5, cases 35, an increase of 3. The number of deaths was 17, an increase of 7.

### Typhoid Fever.

There were reported during the year 80 cases, an increase of 10 from the previous year. Their distribution was as follows: Ward 1, cases 12, an increase of 3; Ward 2, cases 28, an increase of 6; Ward 3, cases 13, an increase of 1; Ward 4, cases 20, the same as last year; Ward 5, cases 7, the same as last year. The number of deaths was 15, a decrease of 1.

The bare statement of the number of cases of a disease occurring in a place of varying population is obviously misleading, if an opinion regarding the prevalence of that disease is sought to be based thereon. A more correct impression will be gained by considering, not the number, but the proportion which the number bears to the population, *i. e.*, the morbidity. In the intercensal

years the population is, of course, estimated, but even thus the knowledge gained is of more value than a simple record of the number occurring.

Appended is a table covering the period from the first complete year of notification to 1892 inclusive.

**Morbidity per 1,000 Living.**

| | 1879 | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diphtheria .... | 5.04 | 3.64 | 3.97 | 3.56 | 4.81 | 3.86 | 3.53 | 3.80 | 3.16 | 3.36 | 5.16 | 2.24 | 1.59 | 1.74 |
| Scarlet Fever.. | 3.22 | 1.78 | 2.16 | 1.28 | 2.93 | 8.51 | 6.65 | 3.70 | 3.27 | 2.26 | 1.70 | 2.69 | 4.90 | 5.01 |
| Typhoid Fever | 0.96 | 0.93 | 1.86 | 1.80 | 1.95 | 1.52 | 1.07 | 2.18 | 1.91 | 2.50 | 2.94 | 1.08 | 0.97 | 1.07 |

The next table shows the fatality during the same period. The term "fatality" is used as the equivalent of case mortality.

**Fatality Percentage.**

| | 1879 | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diphtheria ..... | 23.7 | 20.3 | 35.8 | 25.2 | 28.8 | 18.2 | 29.8 | 31.9 | 19.3 | 26.5 | 29.3 | 20.3 | 13. | 37.8 |
| Scarlet Fever..... | 9.58 | 5.31 | 0.85 | 11.2 | 6.58 | 5.84 | 6.04 | 3.93 | 9.56 | 15.4 | 6.03 | 5.29 | 2.82 | 4.54 |
| Typhoid Fever.... | 12. | 18.3 | 18.8 | 17. | 14.4 | 25.8 | 20.3 | 14.8 | 16.3 | 15.7 | 13.5 | 25. | 22.8 | 18.7 |

A comparison of these tables shows markedly a lack of coincidence between the morbidity and the fatality. There may be many cases and few deaths; or the contrary may be true. Thus in scarlet fever, the maximum morbidity was, in 1884, the maximum fatality in 1888; the minimum morbidity was, in 1882, the minimum fatality in 1881. In diphtheria the maximum morbidity was, in 1889, the maximum fatality in 1892, a year in which the morbidity was the lowest with one exception. The minimum morbidity was, in 1891, the minimum fatality in the same year; the first coincidence.

Again, there appears to be no intimate connection between the prevalence of scarlet fever and of diphtheria.

The morbidity of scarlet fever was high in 1884, 1885, 1891, 1892; that of diphtheria was high in 1879, 1883, 1889. The morbidity of scarlet fever was low in 1880, 1882, 1889; that of diphtheria in 1890, 1891, 1892.

In its onward motion the crest of the wave has risen to a greater

height in scarlet fever, and the fall between the waves has been lower than in diphtheria, the tendency of the latter disease through a larger part of the period under consideration being to a steadier course.

The morbidity of scarlet fever has been rising since 1888, while that of diphtheria has, on the whole, been falling since 1889. The morbidity of typhoid fever has, with few exceptions, followed a remarkably even course, nor has it in the exceptional years risen very high. Again the lack of coincidence between the morbidity and the fatality is seen, the years 1886, 1888, 1889, the ones of high morbidity, being those in which the fatalities were among the lowest. The maximum fatalities occurred in 1884 and 1890, when the morbidities were below the average. Considering the entire period, it is not optimistic to say that the morbidity showing is favorable, and that the fatality is not excessive.

Passing from the Notification Diseases, there are no longer any data from which to compute morbidity and fatality, so the mortality must be used for the purpose of comparison.

The following diseases have been selected on account of their interest to physicians, and because they represent fairly definite complaints.

**Mortality per 1,000 Living at all Ages.**

| | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phthisis ..... | 2.84 | 3.18 | 3.20 | 3.30 | 3.12 | 3.03 | 2.88 | 2.64 | 2.50 | 2.63 | 2.49 | 2.73 | 2.69 |

There is no single disease more worthy of study in all its aspects than Phthisis. It has been said that it kills more than one-third of the people who die between the ages of 15 and 45 years, and nearly half of those who die between 15 and 35 years.

Those just entering on life with its brilliant possibilities before them; those beginning to reap the harvest of their labors; those who are the mainstays of their families; those whom mankind would not willingly let die, all contribute to swell its death-roll. Of all the deaths in Cambridge from 1850 to 1890 inclusive, it caused over fifteen per cent.

During this period its mortality per 1,000 living, ranged from 4.24 in 1853 and 1855 to 2.08 in 1879.

During the years 1850 to 1859 inclusive, the mortality exceeded

4 per 1,000, five times. From 1860 to 1869 it exceeded 3 per 1,000, six times, but did not touch 4. From 1870 to 1879 it exceeded 3 per 1,000, four times, never reaching 4. From 1880 to 1892 it exceeded 3 per 1,000, five times, the highest being 3.30 in 1883. There has surely been improvement during these forty-three years.

**Mortality per 1,000 Living at all Ages.**

| | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diarrhœal Diseases. | 2.10 | 2.34 | 1.53 | 2.05 | 1.30 | 1.70 | 1.53 | 2.16 | 2.26 | 1.79 | 1.82 | 1.92 | 2.04 |

These diseases from 1850 to 1890 inclusive, caused 12.7 per cent. of all deaths, and gave a mortality of 2.48 per 1,000 living. In the table given above the highest point reached is 2.34 in 1881, so if any inference can be drawn it would be favorable. Since 1889 the mortality appears to have been rising.

**Mortality per 1,000 Living at all Ages.**

| | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cancer ..... | 0.62 | 0.72 | 0.43 | 0.59 | 0.44 | 0.58 | 0.64 | 0.56 | 0.53 | 0.64 | 0.67 | 0.72 | 0.56 |

In this table no very definite tendency can be discerned, but an examination of the whole period, 1850 to 1892 inclusive, shows that the mortality of the last decade as compared with that of the first has doubled.

**Mortality per 1,000 Living at all Ages.**

| | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 18 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Measles ..... .... | 0.07 | 0.03 | 0.01 | 0.15 | 0.01 | 0.16 | 0.06 | 0.08 | 0.03 | 0.17 | 0.01 | 0.11 | 0.02 |
| Whooping Cough... | 0.11 | 0.14 | 0.18 | 0.01 | 0.24 | 0.11 | 0.16 | 0.06 | 0.36 | 0.19 | 0.18 | 0.16 | 0.14 |

The course of Measles has presented numerous gaps.

There were no deaths from this disease reported in the years 1850, 1857, 1859, 1861, 1865, 1876, 1877, 1879. The maximum mortality, 0.68, occurred in 1887; the actual number of deaths which this mortality represents is 44.

The maximum mortality from Whooping Cough, 0.78, was in 1855. The mortality for the forty years 1851 to 1890 inclusive, was 0.19. From 1850 to 1892 inclusive, the mortalities of individual years have fallen below this twenty-six times, and have risen above it but twice in the past thirteen years.

### Influenza.

The epidemic of this disease which made its appearance among us in the latter part of 1889, continued with varying exacerbations and remissions into the present year, the greatest number of deaths due to it, in any one month, occurring in January, 1892. The following table gives the total number of deaths in the causation of which this affection was certified to have been a factor.

| Sex. | Age. | Died. | Cause of death. |
|---|---|---|---|
| F | 85 years. | Jan. 2 | Influenza — old age. |
| F. | 63 " | " 2 | La grippe, followed by pneumonia. |
| M. | 82 " | " 3 | La grippe, with old age. |
| F. | 60 " | " 3 | Influenza — pneumonia. |
| F. | 63 " | " 3 | Influenza and bronchitis. |
| F. | 71 " | " 3 | Epidemic influenza. |
| F. | 78 " | " 4 | Influenza and general debility. |
| F. | 68 " | " 5 | Influenza. |
| F. | 70 " | " 5 | La grippe with pneumonia. |
| M. | 71 " | " 6 | La grippe — pneumonia. |
| F. | 39 " | " 6 | La grippe — pleuro-pneumonia. |
| F. | 63 " | " 8 | Influenza. |
| F. | 84 " | " 9 | Influenza. |
| F. | 54 " | " 11 | Influenza. |
| F. | 33 " | " 11 | Anæmia — endocarditis — grippe. |
| F. | 1¾ " | " 12 | Primary scarlet fever, influenza and bronchitis. |
| M. | 64 " | " 16 | Paralysis — influenza. |
| M. | 78 " | " 18 | Chronic bronchitis and acute attack of prevailing epidemic. |
| F. | 68 " | " 20 | Consumption, with influenza. |

| Sex. | Age. | Died. | Cause of Death. |
|---|---|---|---|
| M. | 50 years. | Jan. 25 | Pulmonary tuberculosis, complicated with epidemic influenza. |
| F. | 67 " | " 27 | La grippe. |
| F. | 73 " | " 29 | Influenza. |
| M. | 87 " | " 9 | Intestinal catarrh following la grippe. |
| F. | 60 " | Feb. 7 | La grippe with double pneumonia. |
| M. | 56 " | " 23 | General nervous debility following epidemic influenza. |
| M. | 85 " | " 24 | Influenza — heart failure. |
| M. | 65 " | Mar. 9 | Influenza — dilatation of heart. |
| F. | 56 " | Sept. 19 | Influenza — heart failure. |
| F. | 65 " | Oct. 15 | La grippe — fatty degeneration of heart. |
| M. | 6 mos. | Dec. 30 | Influenza. |

The whole number of deaths among the inhabitants of Cambridge, into the causation of which Influenza, as certified by one or other of its synonyms, entered, was, from the beginning of the epidemic in 1889 to the end of the present year, 54. Of this number 12 were uncomplicated; 15 were complicated with affections of the respiratory system; 11 with some heart affection, and the others with affections certified as follows:

Debility, Meningitis, Old Age, Asthenia, Anæmia, Necrosis, Diabetic Coma, Gastritis, Scarlet Fever, Paralysis, Consumption, Intestinal Catarrh, Nervous Debility. Males contributed 21 of the deaths, females 33.

The age distribution was as follows:

| | |
|---|---|
| Under 1 year of age | 2 deaths |
| Between 1 and 2 years of age | 3 deaths |
| Between 25 and 35 years of age | 3 deaths |
| Between 35 and 45 years of age | 4 deaths |
| Between 45 and 55 years of age | 5 deaths |
| Between 55 and 65 years of age | 13 deaths |
| Between 65 and 75 years of age | 13 deaths |
| Over 75 years of age | 11 deaths |

The monthly distribution was as follows:

January, 36 deaths; February, 3 deaths; March, 1 death; April, 1 death; May, 7 deaths; September, 1 death; October, 1 death; December, 4 deaths.

D. H. THURSTON,
WM. H. WHITNEY,
E. EDWIN SPENCER,
*Board of Health.*

OFFICE OF BOARD OF HEALTH,
CITY HALL, Dec. 29, 1892.

*To the Honorable the City Council:—*

This Board herewith respectfully submits its annual financial statement, it being for the year ending Nov. 30, 1892.

| | | |
|---|---|---|
| Amount appropriated for Health Department | | $4,500 00 |
| Amount additionally appropriated | | 500 00 |
| Total appropriation for the year | | $5,000 00 |
| Amount expended:— | | |
| Advertising | $129 90 | |
| Burying animals | 49 50 | |
| Carriage hire | 12 00 | |
| Car tickets | 225 00 | |
| Carpenter work (putting up board signs at dump on Main Street) | 9 85 | |
| Directory | 2 50 | |
| Distributing hand-bills | 27 00 | |
| Expressage | 45 | |
| Glass jars | 1 50 | |
| Patrolling Charles River | 256 62 | |
| Peppermint (Oil of) | 3 50 | |
| Postage stamps and postage | 47 25 | |
| Printing | 174 60 | |
| Services Clerk of Board | $225 00 | |
| Services Secretary to the Medical Inspector | 251 58 | |
| Services of Medical Inspector | 1,500 00 | |
| Services of Sanitary Inspectors | 1,709 00 | |
| Services Inspector of manure and offal teams | 58 00 | |
| | 3,743 58 | |
| Serving notices | 57 48 | |
| Signs for Cambridge Hospital | 10 00 | |
| Stationery | 36 89 | |
| Vaccine points | 21 00 | |
| Vaccination | 79 00 | |
| Total expenditure | | $4,887 62 |
| Balance of appropriation unexpended | | $112 38 |

By direction of the Board of Health,

JOHN McDUFFIE,
*Clerk.*

# APPENDIX.

## Causes of Deaths in 1892.

*Still-births and Deaths of Non-residents Omitted.*

| DISEASES. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abscess | 1 | .... | 2 | 1 | 2 | .... | .... | .... | .... | 1 | .... | 1 | 8 |
| Accident | 3 | 2 | 1 | 2 | 6 | 1 | 3 | 4 | 1 | 2 | 6 | 4 | 35 |
| Alcoholism | 1 | .... | .... | 1 | 1 | .... | .... | .... | 1 | 1 | .... | 1 | 6 |
| Anæmia | 1 | 1 | .... | .... | .... | .... | .... | ... | .... | .... | .... | .... | 2 |
| Anæmia Pernicious | .... | .... | 1 | .... | .... | .... | .... | .... | .. | .... | .... | ... | 1 |
| Aneurism | .... | .... | .... | 1 | .... | .... | .... | 1 | .... | .... | 1 | .... | 3 |
| Angina Pectoris | .... | .... | .... | 1 | 1 | .... | .... | .... | .... | .... | .... | .... | 2 |
| Appendicitis | .... | .... | .... | 1 | .... | .... | .... | .... | 1 | .... | .... | .... | 2 |
| Apoplexy | 8 | 5 | 3 | 4 | 4 | 4 | 3 | 4 | 2 | 3 | 3 | 6 | 49 |
| Asthma | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 |
| Atrophy | .... | 1 | .... | 5 | .... | .... | 7 | 4 | 5 | 3 | 1 | .... | 26 |
| Bladder Disease | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 |
| Brain Disease | .... | 2 | 2 | .... | .. . | .... | 2 | 1 | .... | 3 | 2 | .... | 12 |
| Bronchitis | 19 | 9 | 9 | 5 | 6 | 3 | 2 | 3 | 1 | 5 | 7 | 4 | 73 |
| Cancer | 1 | 3 | 3 | 3 | 6 | 2 | 4 | 6 | .... | 6 | 1 | 7 | 42 |
| Childbirth | .... | .... | .... | .... | .... | .... | 1 | .... | .... | 1 | .... | .... | 2 |
| Congenital Deformity | .... | .... | 1 | 1 | .... | .... | .... | .... | .... | .... | .... | .... | 2 |
| Convulsions | 2 | 4 | .... | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 3 | 4 | 24 |
| Cyanosis | .... | .... | .... | .... | .... | .... | ... | .... | .... | 1 | .... | .... | 1 |
| Cystitis | .... | ... | .... | 1 | .... | 1 | .... | .... | .... | 2 | .... | .... | 4 |
| Debility | 4 | 3 | 6 | .... | --- | 1 | 4 | 5 | 3 | 5 | 2 | 3 | 36 |
| Diabetes | .... | .... | .... | .... | 1 | .... | .... | .... | .... | .... | .... | .... | 1 |
| Diarrhœal Diseases | 2 | 1 | 1 | 3 | 3 | 4 | 60 | 40 | 23 | 14 | 2 | .... | 153 |
| Diphtheria and Croup | 11 | 4 | 10 | 4 | 5 | 6 | 4 | 2 | .... | 3 | 1 | 6 | 56 |
| Dropsy | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | ... | .... | 1 |
| Dystocia | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | ... | .... | 1 |
| Embolism | .... | .. . | .... | 1 | .... | .... | .... | .... | 1 | 2 | .... | .... | 4 |
| Emphysema | .... | .... | .... | 2 | .... | .... | .... | .... | .... | .... | .... | .... | 2 |
| Empyema | .... | .... | .... | .... | 1 | .... | 1 | .... | ... | .... | .... | .... | 2 |

## Causes of Deaths in 1892—*continued.*

| Diseases. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epilepsy | .... | .... | .... | .... | 1 | .... | .... | .... | .... | 1 | 2 | .... | 4 |
| Erysipelas | .... | .... | 1 | 2 | 1 | .... | 1 | .... | .... | .... | .... | .... | 5 |
| Exostosis | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 | .... | 1 |
| Fever, Scarlet | 1 | .... | 2 | 4 | 2 | 1 | 1 | .... | .... | 1 | 3 | 2 | 17 |
| Fever, Typhoid | 1 | .... | 2 | 1 | 1 | 1 | .... | .... | 3 | 3 | .... | 3 | 15 |
| Gangrene | .... | 2 | 2 | .... | .... | .... | ... | 1 | .... | .... | .... | .... | 5 |
| Gastritis | .... | .... | 1 | 2 | .... | .... | .... | 1 | 1 | 1 | .... | 1 | 7 |
| Heart Disease | 9 | 8 | 11 | 9 | 8 | 4 | 6 | 6 | 3 | 11 | 5 | 3 | 83 |
| Hematuria | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 |
| Hemorrhage | .... | 1 | 3 | 1 | 1 | 1 | .... | .... | .... | 1 | 1 | .... | 9 |
| Hip Disease | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 |
| Indigestion | .... | .... | .... | .... | .... | .... | .... | .... | 1 | .... | .... | .... | 1 |
| Inanition | 1 | .... | 2 | 1 | .... | ... | 1 | 2 | 1 | 2 | .... | 3 | 13 |
| Influenza | 15 | 3 | 1 | .... | .... | ... | .... | .... | 1 | 1 | .... | 1 | 22 |
| Insanity | 1 | 1 | 1 | 1 | 1 | .... | 1 | 1 | 2 | .... | 1 | .... | 10 |
| Intestines, Disease of | .... | .... | 1 | 1 | .... | 1 | .... | .... | .... | .... | .... | ... | 3 |
| Jaundice | .... | .... | .... | .... | 1 | .... | ... | 1 | .... | .... | .... | .... | 2 |
| Kidney Disease | .... | 1 | .... | .... | .... | .... | .... | .... | 1 | 1 | .... | .... | 3 |
| Laryngismus Stridulus | 1 | .... | .... | ... | .... | .... | .... | .... | .... | .... | .... | .... | 1 |
| Laryngitis | 1 | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 2 |
| Lead Poisoning | .... | .... | .... | 1 | .... | .... | .... | .... | .... | .... | .... | .... | 1 |
| Liver Disease | .... | .... | .... | 1 | 2 | 2 | 2 | 1 | 5 | .... | 1 | .... | 14 |
| Lung Disease | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | .... | 2 | .... | 17 |
| Measles | .... | .... | .... | .... | .... | 1 | .... | .... | 1 | .... | .... | .... | 2 |
| Meningitis | 6 | 8 | 7 | 5 | 5 | 2 | 9 | 9 | 3 | 5 | 4 | 2 | 65 |
| Murder | .... | .... | .... | 1 | .... | .... | .... | .... | .... | 1 | .... | .... | 2 |
| Nephritis | 4 | .... | 4 | 6 | 6 | 5 | 2 | 5 | .... | 2 | 2 | 2 | 38 |
| Occlusion of Intestines | .... | .... | 1 | .... | 1 | .... | .... | .... | 1 | .... | .... | 1 | 4 |
| Old Age | 4 | 3 | 2 | 4 | 4 | 4 | 1 | 2 | 2 | 3 | .... | 1 | 30 |
| Paralysis | 5 | 1 | 3 | 3 | 1 | .... | .... | 2 | .... | 3 | ... | 2 | 20 |
| Pelvic Inflammation | 1 | .... | .... | .... | ... | .... | .... | .... | .... | .... | .... | .... | 1 |
| Peritonitis | .... | .... | 4 | 2 | 2 | ... | 1 | 1 | .... | 3 | 1 | .... | 14 |
| Phlebitis | 1 | .... | 1 | ... | .... | .... | .... | .... | .... | 1 | ... | .... | 3 |
| Phthisis | 21 | 16 | 22 | 16 | 20 | 14 | 19 | 5 | 22 | 13 | 17 | 16 | 201 |

## Causes of Deaths in 1892 — *concluded.*

| Diseases. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pleurisy | 1 | .... | .... | 1 | .... | 1 | .... | .... | .... | .... | .... | .... | 3 |
| Pneumonia | 19 | 6 | 11 | 15 | 10 | 7 | 3 | 2 | 5 | 3 | 14 | 14 | 109 |
| Premature Birth | 3 | 2 | 4 | 2 | 5 | 4 | 1 | 3 | 5 | 5 | 2 | 2 | 38 |
| Prostatitis | .... | .... | .... | .... | .... | .... | 1 | .... | .... | .... | .... | .. | 1 |
| Puerperal Fever | .... | 1 | .... | 1 | 1 | .... | 1 | .... | ... | .... | .... | 1 | 5 |
| Pyemia | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 | .... | .... | 1 |
| Rheumatism | .... | 2 | ... | 1 | 1 | .... | 1 | 1 | 1 | .... | .... | 1 | 8 |
| Scrofula | .... | .... | .... | .... | .... | .... | 1 | .... | .... | .... | .... | .... | 1 |
| Septicæmia | 1 | .... | .... | .... | .... | 1 | .... | .... | .... | 1 | .... | .... | 3 |
| Spina Bifida | .... | ... | .... | 1 | .... | 1 | .... | .... | .... | .... | .... | .... | 2 |
| Stomach Disease | ... | .... | .... | .... | .... | .... | 1 | .... | .... | 1 | ... | .... | 2 |
| Suicide | .... | .... | .... | 1 | 2 | .... | .... | 1 | .... | 1 | 1 | .... | .... | 6 |
| Suppression of Urine | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ... | 1 |
| Sunstroke | .... | .... | .... | .... | .... | 2 | .... | 1 | .... | .... | .... | .... | 3 |
| Syphilis | .... | 1 | .... | ... | .... | 1 | .... | 1 | .... | .... | ... | .... | 3 |
| Tabes Mesenterica | .. | .... | .... | .... | .... | .... | .... | .... | ... | 1 | .... | .... | 1 |
| Teething | .... | ... | .... | .... | .... | .... | 1 | .... | .... | .... | .... | .... | 1 |
| Tetanus | .... | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 |
| Thrombosis | .... | .... | .... | .... | .... | ... | .... | ... | .... | .... | .... | 1 | 1 |
| Tonsillitis | .... | .... | 1 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1 |
| Tuberculosis | .... | 2 | .... | 3 | .... | 2 | 4 | 2 | .... | 1 | .... | .... | 14 |
| Tumor | .... | 4 | 2 | .... | 1 | 1 | .... | 1 | 1 | .... | .... | 1 | 11 |
| Ulcer | .... | .... | .... | .... | 1 | .... | .... | 1 | 1 | ... | ... | .... | 3 |
| Unknown | 3 | 5 | 4 | 4 | 3 | 5 | 6 | 3 | 2 | 3 | 1 | 1 | 40 |
| Whooping Cough | .... | 2 | .... | .... | 2 | 1 | 2 | 2 | 2 | ... | .... | .... | 11 |
| Totals | 161 | 108 | 134 | 132 | 120 | 86 | 160 | 129 | 106 | 123 | 86 | 94 | 1439 |

## Cases of Typhoid Fever, Scarlet Fever and Diphtheria reported to the Board of Health during the year 1892.

| | Ward. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Typhoid Fever. | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 3 | 1 | 2 | 2 | 12 |
| | 2 | 0 | 0 | 1 | 5 | 0 | 1 | 1 | 3 | 9 | 7 | 0 | 1 | 28 |
| | 3 | 1 | 0 | 1 | 1 | 2 | 0 | 1 | 1 | 4 | 1 | 1 | 0 | 13 |
| | 4 | 0 | 0 | 2 | 1 | 2 | 4 | 0 | 3 | 2 | 1 | 0 | 5 | 20 |
| | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 0 | 7 |
| Total | | 2 | 0 | 5 | 7 | 5 | 5 | 4 | 9 | 19 | 11 | 5 | 8 | 80 |
| Scarlet Fever. | 1 | 6 | 4 | 6 | 1 | 3 | 2 | 1 | 1 | 2 | 14 | 7 | 8 | 55 |
| | 2 | 8 | 16 | 23 | 12 | 17 | 3 | 5 | 2 | 2 | 5 | 9 | 6 | 108 |
| | 3 | 14 | 8 | 13 | 4 | 10 | 5 | 1 | 4 | 2 | 6 | 7 | 7 | 81 |
| | 4 | 5 | 13 | 8 | 14 | 19 | 3 | 3 | 1 | 6 | 6 | 12 | 5 | 95 |
| | 5 | 1 | 0 | 5 | 7 | 2 | 3 | 3 | 3 | 0 | 0 | 5 | 6 | 35 |
| Total | | 34 | 41 | 55 | 38 | 51 | 16 | 13 | 11 | 12 | 31 | 40 | 32 | 374 |
| Diphtheria. | 1 | 3 | 3 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 7 | 2 | 1 | 22 |
| | 2 | 7 | 2 | 2 | 0 | 5 | 1 | 0 | 1 | 1 | 2 | 1 | 4 | 26 |
| | 3 | 2 | 2 | 4 | 2 | 7 | 4 | 1 | 5 | 1 | 1 | 0 | 2 | 31 |
| | 4 | 9 | 4 | 6 | 2 | 2 | 5 | 3 | 1 | 0 | 1 | 8 | 3 | 44 |
| | 5 | 2 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 7 |
| Total | | 23 | 11 | 15 | 6 | 17 | 11 | 5 | 7 | 2 | 11 | 12 | 10 | 130 |
| Grand totals | | 59 | 52 | 75 | 51 | 73 | 32 | 22 | 27 | 33 | 53 | 57 | 50 | 584 |

# REPORT OF THE SUPERINTENDENT OF LAMPS.

---

OFFICE OF SUPERINTENDENT OF LAMPS,
CAMBRIDGE, Dec. 1, 1892.

*To the Honorable the City Council:* —

I have the honor to herewith submit the annual report of the Lamp Department for the year ending Nov. 30, 1892.

| | |
|---|---|
| The amount appropriated | $65,006 50 |
| Balance unexpended | $1,143 82 |

The principal amounts expended are as follows: —

| | |
|---|---|
| For Arc Lighting | $47,164 93 |
| Incandescent | 3,170 35 |
| Gas consumed | 7,266 69 |
| Care of lamps | 4,551 34 |
| Chimneys | 119 60 |
| Oil | 204 49 |
| Matches | 7 71 |
| Carriage hire | 36 50 |

Expenses for Electric Lighting have been as follows: —

**Arcs.**

| | |
|---|---|
| Amount of bills rendered | $47,428 83 |
| Amount of deduction for outages | 263 90 |
| Amount expended for arcs | $47,164 93 |

**Incandescents.**

| | |
|---|---|
| Amount of bills rendered | $3,205 52 |
| Amount of deduction for outages | 35 17 |
| Amount expended for incandescent | $3,170 35 |

The number of hours in which one or more lamps have failed to burn are: —

| | |
|---|---|
| For arc lamps | 6,782.5 hours |
| For incandescents | 3,472 hours |
| Total outages | 10,254.5 hours |

| | |
|---|---|
| The largest number of arc lamps in use in any one day | 437 |
| The largest number of incandescent in use in any one day | 114 |

The expense of gas lighting has been as follows: —

| | |
|---|---|
| Amount expended for gas | $7,266 69 |
| Amount expended for care of lamps | 3,762 28 |
| Cost of gas per lamp | 22 08 |
| Cost of care per lamp | 11 13 |
| Cost of care per day | 03+ |

Average number gas lamps burned per day during the year, 329.

These lamps have burned 1,684,088½ hours, consuming 6,056,-443¾ cubic feet of gas.

The average length of time each gas and oil lamp has burned per day, 10.073 hours.

The expense of lighting with oil has been as follows: —

| | |
|---|---|
| Amount expended for oil | $204 49 |
| Amount expended for chimneys | 119 60 |
| Amount expended for matches | 7 71 |
| Amount expended for care of lamps | 789 05 |
| Cost of chimneys per lamp | 1 72 |
| Cost of care per lamp | 11 43 |

Average number of oil lamps burned per day during the year, 69.

3280 gallons of oil have been consumed, averaging 47⅓ gallons per lamp, at an average of .06¼ cents per gallon.

Whole number of lamps in use Nov. 30, 1892,

| | |
|---|---|
| Arcs | 437 |
| Incandescent | 114 |
| Gas | 299 |
| Oil | 56 |
| Total | 906 |

February 3d the undersigned took charge of this department, the former superintendent having resigned to become superintendent for the Electric Light Co.

At that time most of the lamps called for by the new contract had been started; those remaining were speedily lighted and the number of lamp-lighters were then reduced to five, which number are still employed.

This department is now provided with an am-meter, volt-meter, and a portable photometer, and numerous tests have been made during the year to ascertain the quantity of light given by the com-

pany, and it is gratifying to say that the contract is being lived up to in every particular as far as arc lights are concerned.

In many places we are not getting the best results from our lamps on account of the trees which shade our streets so much; the only remedy for this will be a vigorous trimming, which it is hoped can be done before the trees leaf out in the spring.

A great improvement will be noticed in the amount of "outages" during the past year, both for arc and incandescent lights; this certainly speaks well for the new construction.

During the year many petitions have been presented for new lamps, and the committee have been about the city investigating the merits of the several requests; they found that most of the petitions represented actual needs and have from time to time recommended the granting of the same; thus many dark corners have been provided for during the year.

It is hoped that a broad view will be taken of the matter of lighting, and that if but a limited amount can be appropriated for additional lights, the streets mentioned in last year's report will be carefully considered, and the requests for individual lights be granted only after the following named streets are provided for: Norris, Clay, Jackson, Sargent, Dudley, Harvey, Madison, Donnell, Montgomery and Tuttle Streets of Ward Five; Parker, Foster, Farwell Place, Brewer, Murray, South, Dyke, Grant, Sands Streets in Ward One; Green, Franklin, Kinnaird, Hayes, Allston, Blackstone and Somerset Streets in Ward Four; Pine, Clark and Union Streets in Ward Two. "There are several of the above mentioned which have quite a large population and no lights of any kind whatever, and I would earnestly recommend that these streets may have a sufficient number of lights placed upon them to make them safe for public travel." — From last year's report.

### Gas Lamps.

It will be remarked that gas lighting is more expensive than in former years; this is for two reasons. Each lamp burns twenty-five per cent. (25) more gas than formerly, as the burners are "five foot" in place of "four foot" burners; also, the lamps are more scattered than formerly, requiring more lighters for a given number of lamps.

There are still remaining upon our streets a large number of gas lamp posts which will probably never be used again; these should be removed during the coming year.

### Oil Lamps.

Cambridge still uses some oil lamps; these are unsatisfactory, as they give a small amount of light, and during a rainstorm are nearly always out, as the chimneys break on account of water getting into the lanterns.

These should be changed to either gas or incandescent. Then we should be getting a return for our expenditure.

To the Lamp Committee, who have so courteously initiated the new Superintendent into office, I extend my thanks.

Respectfully submitted,

CHAS. H. MORSE,

*Superintendent of Lamps.*

# REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

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OFFICE OF SEALER OF WEIGHTS AND MEASURES,
CAMBRIDGE, NOV. 30, 1892.

*To the Honorable the City Council:—*

I have the honor of submitting to you the annual report of the Department of Weights and Measures.

| | |
|---|---|
| The net amount of appropriation | $1,447 59 |
| Estimated revenue | 450 00 |
| Total appropriation | $1,897 59 |
| Amount expended | 1,684 10 |
| Balance unexpended | $213 49 |

| | |
|---|---|
| Whole number of scales, weights and measures inspected | 29,618 |
| Whole number of scales, weights and measures condemned | 1,070 |
| Whole number sealed | 28,548 |

| | |
|---|---|
| Number of scales found incorrect and adjusted | 206 |
| Number of weights found incorrect and adjusted | 54 |
| Number of dry measures found incorrect and adjusted | 24 |
| Number of wet measures found incorrect and adjusted | 4 |
| Total | 288 |

| | |
|---|---|
| Number of scales condemned | 8 |
| Number of weights condemned | 2 |
| Number of dry measures condemned | 34 |
| Number of wet measures condemned | 7 |
| Number of yard sticks condemned | 2 |
| Number of coal baskets condemned | 21 |
| Number of milk cans condemned | 996 |
| Total condemned | 1070 |

Amount of cash received as fees for sealing, $492.81.

### Expenses of this Department.

| | |
|---|---|
| Salary of B. O. Danforth, sealer from Dec. 1, 1891, to Feb. 23, 1892 | $81 48 |
| Salary of C. D. Kinnear, assistant from Dec. 1, 1891, to Feb. 23, 1892 | 58 75 |
| Salary of Albert F. Roberts, sealer from Feb. 23, 1892, to Nov. 30, 1892 | 615 33 |
| Salary of C. D. Kinnear, assistant from Feb. 23, 1892, to Nov. 30, 1892 | 205 00 |
| J. F. Wheeler, assistant to B. O. Danforth | 2 63 |
| Horse keeping (unpaid bill of 1891) | 47 50 |
| Horse for the department (unpaid bill of 1891) | 225 00 |
| Repairs on scales in office (unpaid bill of 1890) | 18 00 |
| Horse-keeping, 1892 | 190 83 |
| Stationery, envelopes and printing | 37 60 |
| Steel dies and brands | 20 15 |
| Hardware, tools, etc. | 8 40 |
| Clipping horse | 3 00 |
| Horse-shoeing | 7 01 |
| Repairs on, and painting wagon | 29 50 |
| Scale box | 3 00 |
| New trip scale for sealing | 14 13 |
| New weights, etc. | 4 40 |
| West End R.R. tickets | 10 00 |
| Thomas Gurnham, one-half amount of fees collected as weigher | 21 34 |
| T. Sullivan, one-half amount of fees collected as weigher | 81 05 |
| | $1,684 10 |

In rendering this, my first report as the head of this department, I am happy to report no accident of any kind, save the natural wear and tear of the property used in the prosecution of the work.

When I took charge of this department in February last, I found it in good running order, and although I have received no instructions from my predecessor in office, his time being fully occupied in his present duties, the work has gone on without any hindrance, and although, as my report shows, the number of scales, weights and measures inspected and sealed exceeds that of last year by about twenty-five hundred, the department has been carried on at an expense of two hundred dollars less than last year.

The business of this department for the last three years has increased to such an extent, that it has become one of *the* departments of the city. The gradual increase of business in our city has brought a corresponding increase of work to the department of weights and measures.

The number of weights and measures brought to this office for

sealing is so large, that for three or four months at the beginning of the year it requires the constant help of an assistant, in order that the work may be done, with as little delay as possible, to those who bring it; (notwithstanding the statement of some one, "that with the exception of the heavy scale work, the work of this department can be performed by one man"). And I would recommend that an appropriation be made for an assistant for at least six months of the year.

A great deal of the sealer's time is required in inspecting the weights and measures of an innumerable number of hawkers and peddlers who invade our streets, and it is only through the closest vigilance that they are kept from defrauding our people, not only in the sale of inferior goods, but in the use of short weights and measures. I commend the efforts of some of our own citizens who have obtained licenses as peddlers, and are striving to get an honest living. And it is through the dishonesty of a large majority of those engaged in the same business, who come to our city from other cities and towns, that they are hardly able to obtain a livelihood.

It is the purpose of the sealer the coming season to strictly enforce the law in regard to the use of illegal weights and measures, so that our citizens may be protected in the purchase of their goods, and be assured that they are getting the full amount for which they pay.

I regret very much to be obliged to report of having to obtain warrants against some for violating the law in regard to the use of short weights and measures, and bringing them before the district court, for which offence they have been fined. A few examples of this kind has had its salutary effect.

The department is very much in need of a light wagon for the lighter part of the work, thereby saving very much the wear and tear of the heavy express wagon, which we are now obliged to use; and I would recommend that the sealer be authorized to purchase one suitable for that purpose. I desire to express my appreciation of the valuable suggestions and assistance to me of Mr. Conrad D. Kinnear, the former assistant to my predecessor in office.

Respectfully submitted,

ALBERT F. ROBERTS,

*Sealer.*

# REPORT OF THE INSPECTOR OF MILK AND VINEGAR.

---

CAMBRIDGE, Dec. 1, 1892.

*To the Honorable the Mayor and the City Council of the City of Cambridge:* —

GENTLEMEN,— I respectfully submit my annual report as Inspector of Milk and Vinegar for the year ending Nov. 30, 1892.

The object of this department is to secure to the consumer pure milk and vinegar, and in the course of the work directed to this end, the question at once arises, What is pure milk and what is pure vinegar? Fortunately the law answers this question for the Inspector by establishing a certain standard for these two articles of food, and makes it the duty of any one dealing in them to see that their supply conforms to this standard. In the case of milk the standard requires that it shall contain not less than 13 per cent. of milk solids, 3.7 per cent. of fat, 9.3 per cent. of milk solids exclusive of fat, and not more than 87 per cent. of water; any sample of milk which is found on analysis to fall below this standard in any or all of these particulars is considered by the statute as adulterated, or not of good standard quality. It makes no difference whether that particular sample of milk is just as it was taken from the cow or not, its sale is illegal. Although at first sight it might seem strange that milk should be considered as adulterated when it is in exactly the condition in which it was milked from the cow, yet it is seen with a little consideration that this interpretation is quite necessary. In the first place, the quality of a cow's milk depends on a number of different things; it differs with the breed of the cow, with her state of health, with the kind of food and amount of drink given her and the manner in which she is cared for; it is perfectly possible by varying these factors to make a cow which is now giving a comparatively small amount of rich milk give a larger amount of milk of poorer quality, often considerably below the legal standard; and then by again changing her treatment make her give milk of good standard quality; such changes are well understood by farmers.

Moreover, if the first three-quarters of a milking is collected by itself, and the last quarter by itself, this last part will be found to have a far larger proportion of cream than the first part, owing to the fact that most of the cream comes with the last part of the milking, the strippings so called; milk can thus be nearly as effectually skimmed during the milking as afterwards. When all these things are taken into consideration, it is seen that the mere fact of milk being in the same condition in which it was taken from the cow can be no guarantee of its good quality, and this fact is very properly taken into account in the legislation on the subject.

The present standard was established by taking the average of the analyses of many hundred samples of milk, produced by common cows given ordinary food and treatment; and though out of a herd of ten or twelve cows a few may give milk below the required standard, others will give it of better quality, so that when it is all mixed together it is found to conform very closely to the standard required by law. Most milkmen, therefore, run their milk through a cooler before putting it up in cans, in order to strain out any impurities, and make the whole supply of a uniform quality. If this is carefully done, and proper care is taken to see that the dairies from which they get their supply give them milk of good quality, but little trouble is experienced by milkmen in getting milk of good standard quality.

It may be of interest to see just what regulations are established by the Public Statutes regarding the sale of milk in this Commonwealth, and the following extracts will show this in a concise form:

"For neglecting or refusing to license or register for the sale of milk: in the case of a milk peddler a fine not less than thirty nor more than one hundred dollars; in the case of a store-keeper a fine not exceeding twenty dollars.

For selling, exposing for sale or having in possession with intent to sell, adulterated milk, or milk not of good standard quality, or milk to which water or any foreign substance has been added, or milk from sick or diseased cows, or cows fed on the refuse of distilleries: for a first offence a fine not less than fifty nor more than two hundred dollars; for a second offence a fine not less than one hundred nor more than three hundred dollars; and for a subsequent offence, a fine of fifty dollars and imprisonment in the House of Correction for not less than sixty nor more than ninety days.

For selling, exposing, etc., as pure milk, milk from which any part of the cream has been removed: penalties as above.

For selling, exposing, etc., skimmed milk, except from cans or other vessels marked as required by statute: penalties as above.

For selling, exposing, etc., skimmed milk containing less than nine and three-tenths per cent. of milk solids exclusive of fat: penalties as above.

For obstructing in any manner the Milk Inspector or his assistants in the performance of their duties: a fine of not less than one hundred nor more than three hundred dollars, or by imprisonment for not less than thirty nor more than sixty days.

For neglecting or refusing to register for the sale of oleomargarine: a fine not exceeding twenty dollars.

For selling, exposing, etc., as cider vinegar, vinegar not made exclusively of apple cider: a fine not exceeding one hundred dollars.

For selling, exposing, etc., vinegar containing any artificial coloring matter, or containing any preparation of lead, copper, sulphuric acid, or any ingredient injurious to health: a fine not less than fifty nor more than one hundred dollars.

For selling, exposing, etc., any vinegar not of standard quality, *i. e.*, containing less than four and one-half per cent. of absolute acetic acid, or, in the case of cider vinegar, containing less than two per cent. by weight of cider vinegar solids: a fine not exceeding one hundred dollars."

It is the duty of the Inspector to see that these statutes are complied with, and in case of their infringement to make complaint against the person or persons violating them. Experience in this and other cities has shown that these regulations can best be enforced by a systematic collection of samples of milk and vinegar from the supply offered for sale. Samples must be taken from all persons found selling these articles of food, and, so far as possible, at times when they are not expecting a visit, and in the case of milkmen, the collector is instructed to get on the team and make his own selection of the cans from which he will take samples, irrespective of the desires of the driver in charge; and this the statute gives him the power to do. The samples so collected are brought to the laboratory and submitted to analysis, and the results of such analyses preserved in a book kept for that especial purpose; thus it is possible at any time to look back and find just how many samples have been taken in the course of the year from any particular dealer, and of what quality they were. A full description of the methods used in the analysis of samples of both milk and vinegar can be found in the report for 1890, and the following table will show the number of such analyses made in the last year, as well as the general results attained: —

| | |
|---|---|
| Total number of samples collected | 2,160 |
| Number of samples of milk | 2,067 |
| Number of samples of milk of standard quality | 1,865 |
| Number of samples of milk below standard | 202 |
| Number of warnings sent | 140 |
| Number of samples of vinegar | 93 |
| Number of samples conforming to standard for cider vinegar | 71 |
| Number of samples not conforming to standard for cider vinegar | 22 |
| Number of prosecutions for selling milk not of good standard quality | 7 |
| Number of convictions | 7 |
| Number fined | 6 |
| Number placed on file | 1 |
| Amount of fines paid to city | $325 00 |

The standard established for vinegar is that it must have an acidity of 4.50 per cent. of absolute acetic acid, and, if it is sold as cider vinegar, it must also have a solid residue of not less than 2 per cent. of cider vinegar solids; of the samples analyzed this last year nearly all were of the required degree of acidity; a large number, however, did not contain the 2 per cent. of solids required in the case of cider vinegar, and just here is where the difficulty is experienced in enforcing the law. As both the Inspector and his assistant are pretty well-known by the dealers, great pains are taken when cider vinegar is asked for to tell them that the sample is not warranted as pure cider vinegar, but only as pure vinegar; sometimes they are told by the dealer that he bought it for cider vinegar, but will not warrant it; more often that it was bought for pure vinegar and is sold as such, but not as cider vinegar. Whether all customers are treated in the same careful manner is a question of considerable doubt to the Inspector which could only be solved by employing some one to collect samples of vinegar who was not known to the dealers, and this the Inspector cannot do owing to the small amount of money at his disposal.

The wholesale dealers who sell this manufactured vinegar are all very careful to make out their bills without the word "cider" appearing upon them, so that it is impossible to make any complaint against them. A small addition to the general appropriation would enable the Inspector to enforce the law in regard to the sale of vinegar much more thoroughly than is at present possible.

The expenses of this department have been kept within the appropriation of $1,000.00, and the manner in which this money has been spent can be seen by the following table: —

| | |
|---|---|
| Salary of Inspector | $600 00 |
| Salary of Assistant | 200 00 |
| Paid for samples of milk and vinegar | 68 58 |
| Paid for horse hire | 54 00 |
| Paid for car tickets | 20 00 |
| Paid for chemicals, printing, stationery, etc. | 57 41 |
| Unexpended balance | 01 |
| Total | $1,000 00 |

In addition to the collection and analysis of samples of milk and vinegar, the Inspector is required to issue licenses to all persons selling milk or oleomargarine. These licenses must be renewed annually, except in the case of those persons who sell milk from a store; here one license is good so long as business is done at the same place and in the same name. The annual licenses expire on the first day of May, and must be renewed before the 1st of June. The following table shows the number of licenses issued and the amount received from their sale, which sum has been paid to the City Treasurer: —

| | |
|---|---|
| Total number of licenses issued | 268 |
| Number of annual milk licenses | 184 |
| Number of milk licenses to stores | 77 |
| Number of oleomargarine licenses | 7 |
| Received from annual milk licenses | $92 00 |
| Received from milk licenses to stores | 38 50 |
| Received from oleomargarine licenses | 3 50 |
| Total | $134 00 |

By a recent act of the Legislature, Chap. 58, Acts of 1891, Sect. 2, it is made the duty of the Inspector of Milk to collect and analyze samples of suspected butter and imitations thereof, and to institute complaints for the violation of this act; in order to do this, the Inspector would need an additional appropriation of $400.00 a year. It is probable that a considerable quantity of oleomargarine is sold in this city, and bought by the consumers as butter; a small number of persons annually take out a license for its sale, but as no regular system of inspection has ever been carried out, the larger number doubtless omit this formality, and sell it without a license, in which case the fact that it can scarcely be distinguished from butter, either by taste or color, together with its much lower price,

make its substitution for butter a matter of extreme probability. In closing, the Inspector would strongly recommend that the annual appropriation be raised to $1,500.00, and is sure that the city would be more than compensated for this outlay by the increased efficiency of this department.

Respectfully submitted,

FRANK A. DUNBAR,

*Inspector of Milk and Vinegar.*

# REPORT OF THE INSPECTOR OF WIRES.

*To the Honorable the City Council:—*

I have the honor to herewith submit the annual report of the Department for the Inspection of Wires.

During the past year some progress has been made by the various companies who have the use of our streets for the transmission of electrical energy. The wires of the electric light company have been placed upon new and larger poles, and the West End Railway Company have been granted locations upon the same poles, thus reducing the number in our streets.

With the rapid increase of business, all our pole lines will soon be so overloaded that they will become dangerous, unless special attention is given to guying the lines. No one, who has followed electrical development for the past ten years, can doubt that overhead construction for main lines is only for a few years at most; but at the same time, this temporary work should be made as permanent as possible as no other construction should be tolerated in our streets.

Underground work for telephone lines has so developed, that I have no hesitation in saying that no more locations for poles should be granted where the present demand for wires requires the running of thirty or more.

Many of our pole lines in Cambridge were erected several years ago, and the demands for more telephones and the doubling of the number of wires by the introduction of metallic circuits have caused the poles to be overloaded. Among these are the poles on Green, Banks, Prospect, Broadway and Mt. Auburn Streets. There seems to be but one remedy for this trouble, which is the putting in by the telephone company of an underground conduit from Inman Street to Harvard and Brattle Squares, via Main and Mt. Auburn Streets.

The telephone company should build a conduit from Main Street to Cambridge Street through Third Street, as this line is at present overloaded.

The Inspector of Wires has inspected the wires in various buildings which have been wired during the year, and has required the work to be done in a thorough manner, and the standard has been kept up with the times.

### Fire Alarm.

Our fire alarm system has been thoroughly overhauled; the outside lines have been entirely rebuilt and more circuits added, giving us ten (10) box and bell circuits and one (1) local circuit about Brattle Square.

The office has been moved to the third floor of the Brattle Square building, giving us more and larger rooms. The Superintendent of Public Buildings has fitted them up in such a manner, that they reflect credit upon the city. During the year, one hundred and eighty-three (183) alarms have been given over our circuits, which is one for every second day. We are now equipped with a central office box, from which we can send out any box number. This, in connection with our telephone system and police signal system, will enable us to notify the firemen quickly when their services are required. Many of our boxes are of the oldest pattern, and have long since been thrown aside by other cities. I would recommend that these be replaced with non-interference boxes in our manufacturing districts, and that the "pulls" of those in our residential districts be made non-interference; this would be a small expense and would give us a more reliable system.

At present, we are obliged to board two horses at stables at an expense of six hundred dollars ($600) per year, as we have no place in which to keep the carriages. A few hundred dollars invested in a small building in the rear of Brattle Square building would be saved to the city in a short time. The two police signal systems in the care of this department are giving perfect satisfaction. By a system of inspection the troubles are kept very few, and such as do arise are corrected at once, whether it be day or night.

Part of the work of running the wires for a police signal system at Station One has been completed at an expense of five hundred and seventy-five dollars ($575), which has been paid for by the Police Department through a transfer at the end of the year.

Through a part of Front Street, the police wires have been placed under ground, and it is expected that the telephone cables will be so placed during the winter that the balance of the wires on the street can be cheaply placed in this conduit.

With an earnest invitation to you to inspect our fire-alarm office and police signal systems, I respectfully submit this report,

CHAS. H. MORSE,

*Inspector of Wires.*

# REPORT OF THE COMMITTEE ON PUBLIC PARKS.

CAMBRIDGE, Nov. 30, 1892.

*To His Honor the Mayor, and the City Council of Cambridge:—*

GENTLEMEN, — The committee appointed "to investigate and report to the City Council such locations as they shall deem suitable and desirable for public parks, together with the proposed cost and probable betterments thereof, and make recommendations concerning the same, and to furnish such information as they may be able," having thoroughly examined all available sources of information, patiently investigated the sanitary condition and necessities of the city and several propositions suggested in reference thereto, and carefully considered the subject of a comprehensive system of public parks, in all its phases, respectfully submits the following report.

At present there are in three wards of the city eight parks or playgrounds, mostly of small area, that have been appropriated to the public use, as follows, viz.:

**Ward One.**

| | |
|---|---|
| Cambridge Common (five parts east and west of North Avenue) | 461,452 sq. ft. |
| Winthrop Square | 10,236 sq. ft. |
| Arsenal Square | 3,189 sq. ft. |
| Total, Ward One | 474,877 sq. ft. |

**Ward Two.**

| | |
|---|---|
| Broadway Common | 107,181 sq. ft. |

**Ward Three.**

None.

**Ward Four.**

| | |
|---|---|
| Washington Square | 42,123.3 sq. ft. |
| Hastings Square | 29,999 sq. ft. |
| Dana Square | 33,531.9 sq. ft. |
| River Street Square | 1,569 sq. ft. |
| Total, Ward Four | 107,223.2 sq. ft. |

**Ward Five.**

None.

In addition to the above described public grounds, the following parks are now in course of construction and nearly completed, to wit:

*Fresh Pond Park*, so called, on the western border of the city, containing 166.47 acres of water surface, and 158.32 acres of land area. The grounds are ornamented with driveways, bluffs, intervale and sylvan groves, and though no part of them can be used for athletic sports or robust games, the whole constitute a most healthful, attractive and desirable public resort. The park is not directly accessible to any populous portion of Cambridge, but with proper facilities for street travel it would doubtless be much frequented by the people of the whole city.

*The Esplanade*, now being constructed by the Charles River Embankment Company, on the Charles River near Harvard Bridge, is of a uniform width of two hundred feet, secured by an ample retaining wall, and extends the entire length of the embankment, 4,333 feet, containing about 866,000 square feet, or nearly twenty acres; and by the provisions of the organic act of the company, Chapter 211, Statutes of 1881, and the terms of its contract with the city, is to be appropriated forever to public use as an esplanade or park-way, "provided that Cambridge will from time to time accept and care for the same." The extension of this sea wall and embankment northerly to Craigie's Bridge and westerly to Cambridge Cemetery, which must at some time be accomplished for the preservation of the health of the people, will give the city of Cambridge one of the most magnificent and beautiful land and water parks in the world, contributing beyond measure to the healthfulness, happiness and general welfare of the whole population.

Having ascertained the present condition and maturely considered the future possibilities of the city respecting public parks, the committee proceeded with its work of selecting several local parks, near the most congested centres of population, as breathing-places and pleasure resorts of the people, — the great industrial classes who cannot avail themselves of seaside and mountain resorts during the season of the summer's heat, and who, it is hoped, will be most benefited by a provident exercise of public liberality.

1. The crowded condition of the population of East Cambridge having an average density of $55\frac{8}{10}$ persons to each inhabited acre,

and no place of public resort, seemed to leave no doubt that some provision for open-air recreation should be made for this locality. The committee, however, found it difficult to select a proper lot of land for the purpose that could be obtained at a moderate cost. The always vexatious obstacle of the Boston & Albany Branch Railroad was here encountered. A public park and its approaches, to meet the requirements of the people, should be places of absolute safety, especially to small children unaccompanied by adults, and the tracks of the railroad in this vicinity constitute so great an element of danger to passers-by as to seriously impair the value of any park that can be reached only by crossing them. A proposition to take a tract of land near the centre of the populous district and remove the buildings thereon, did not commend itself to a majority of the committee, who could not approve of any project to destroy a considerable number of the homes of the people, or other valuable buildings, to obtain a small park at a very great cost; and on investigation it was found that vacant lots near Second or Third Streets, which the committee would have preferred to those nearer the railroad, were held at rates too high for favorable consideration. The committee is therefore impelled to make for this section of the city the following recommendation:

To take for the purposes of a public park, a tract of land bounded as follows: — Northerly by the southerly side of Vine Street, 533.5 feet, easterly by the westerly side of Sixth Street, 450 feet, southerly by the northerly side of Bent Street, 535.27 feet, westerly by the easterly side of Ninth Street, 450 feet, containing about 219,923 square feet in lots, and 20,550 square feet in proposed Charles Street, a total area of about 240,473 square feet; at a cost for land and buildings not exceeding $73,000. (For a more particular description, see accompanying plan of City Engineer, marked A.)

This will suffice for a playground for small children, and a quiet retreat for men and women. It is probable that it will be found desirable to exclude from it all robust games by men and large boys.

2. The lower portion of Ward Two, lying between Portland Street and Columbia Street, and extending from Main Street to the Somerville line, contains a very dense population, nearly equal to the average density in East Cambridge, except on the Binney field, so called, near the centre of the district, which seems to be

admirably adapted to the wants of that section, and a majority of the committee join in the following recommendation:

To take for the purposes of a public park, a portion of the Binney field, bounded as follows: — Northerly by the southerly side of Cambridge Street, 528.52 feet, easterly by the westerly side of Berkshire Street, proposed, 1,087.14 feet, southerly by the northerly side of York Street, proposed, 515 feet, westerly by the easterly side of Willow Street, proposed, 963.98 feet, containing about 528,154 square feet, including about 59,425 square feet, the area of proposed streets; also a strip of land one hundred feet wide from the above described lot to Winsor Street, containing about 29,005 square feet; a total area including proposed streets of about 557,159 square feet; at a cost for land and buildings not exceeding $73,100. (See accompanying plan of City Engineer, marked B.)

A portion of this proposed park may be set apart for athletic sports by men and boys, and the balance appropr at d as a play-ground for small children, and a healthful resort for adults seeking open-air recreation.

3. The rapid growth of the population of North Cambridge, having no public park, and its tendency to concentrate in the vicinity of Spruce Street, cannot be overlooked in the consideration of any comprehensive measures for the welfare of the whole people. Concerning the selection of suitable park grounds for this section, public sentiment has apparently crystallized about the Rindge Field, so called, while its central location and the moderate price at which it is offered, seem to leave it without a competitor. The committee therefore recommends —

The purchase for the purpose of a public park, of the Rindge Field on the southerly side of Spruce Street, containing about 501,729 square feet, at a cost not exceeding $30,000. (For description see plan of the City Engineer, marked C.)

This field will probably require no filling and but little expenditure to put it in order for public use; and except for economic considerations the committee would have recommended the taking of about 66,950 additional feet of land, including Groveland Street, at a cost of about $15,000 for land and buildings thereon, to straighten the easterly line of the Rindge Field to Spruce Street.

A portion of this proposed park may be well appropriated to base-ball and other athletic sports by men and boys.

4. On the low grounds in the vicinity of Boylston Street, there is a crowded population scarcely less dense than in any of the eastern parts of the city, and the adjacent flats and marshes are noxious, filthy and repulsive beyond comparison. As a measure of relief to this suffering locality, the committee makes the following recommendation :

To take and improve, without delay, a tract of land 200 feet wide, bordering upon the Harbor Commissioner's Line, and extending two hundred feet from each side of Boylston Street, with such modification of the lines as the City Engineer may find necessary, containing about 80,000 square feet, subject to the rights of the Harvard Boat Club on the easterly side of Boylston Street, at a cost not exceeding $20,000 for taking the land, constructing a retaining wall, filling and gravelling complete. (See plan of the City Engineer, marked D.)

This improvement will be equally valuable and indispensable either as a section of the greater work hereinafter outlined, or as a separate breathing-place for the benefit of the congested localities in the vicinity. And this committee believes that the college authorities will heartily join the city in the prosecution of any work at this point, to preserve the health of the people, improve the condition of the river, and create a more desirable thoroughfare to Soldiers' Field, which of itself will be of great value to the future welfare of the city.

5. The committee further recommends, that a lot of land bounded westerly by the Harbor Commissioner's Line, 220 feet, northerly by land of the Riverside Press, 455 feet, easterly by Blackstone Street, 182 feet, and southerly by River Street, 498 feet, containing about 90,784 square feet, now belonging to the city; and a lot of land of irregular shape, lying in the square bounded by Western Avenue, Howard Street, River Street and Putnam Avenue, containing about 209,438 square feet, also belonging to the city — both being known as the Old Mill Pond — be reserved and appropriated for the purposes of public parks. (See plan of the City Engineer, marked E.)

The proposed parks in Wards Two and Three will require considerable additional expenditure for filling and grading, if this work is done at once ; but it is thought it may be gradually effected in large part, at small cost, with street scrapings, ashes and other dumpings from that section of the city.

The committee has not investigated the matter of betterments, for the statute provides that "At any time within two years after any land is taken or purchased for a park or parks under this act, the board of aldermen . . . may adjudge and determine the value of . . . benefit and advantage to any . . . real estate, and may assess upon the same a proportional share of the cost of land so purchased or taken, and of the expense of laying out, grading and making of such park or parks;" and any statement of anticipated benefit and advantage would be but conjectural and probably misleading.

The members of the committee, after mutual investigation and deliberation, are in substantial harmony concerning the foregoing recommendations, which were agreed to, at a maximum cost of $196,100 for lands and buildings thereon.

*Summary* of the area of existing public parks and of park grounds herein recommended, exclusive of the Esplanade and Fresh Pond parks.

| WARDS. | Area of Present Parks — sq. ft. | Area of Parks herein recommended — sq. ft. | Total area — sq. ft. |
|---|---|---|---|
| 1 | 474,877 | 80,000 | 554,877 |
| 2 | 107,181 | 557,159 | 664,340 |
| 3 | None. | 240,473 | 240,473 |
| 4 | 107,223 | 300,222 | 407,445 |
| 5 | None. | 501,729 | 501,729 |
| TOTAL. | 689,281 | 1,679,583 | 2,368,864 |

This committee is of the opinion that it will not have discharged its full duty without having invited attention to the imperative necessity of a public undertaking to remove a source of imminent peril to the lives and health of the community, and, at the same time, to complete a system of parks unsurpassed in attractiveness and in its bounteous supply of life-giving air for the people of the whole city. It is obvious that Cambridge has entered upon a period of rapid and permanent growth which, if not impeded by some unforeseen event, will result in a population of not less than one hundred and forty thousand inhabitants within eighteen years

from the present time; and whatever a broad and comprehensive policy shall wisely determine to be necessary for the health, comfort and material welfare of such a community in the near future, should be commenced at once; there is no time to be lost in unnecessary delays that will add to the cost of the project.

Along the bottom and banks of the Charles River is deposited a bed of apparently putrescible sludge, consisting of decomposed animal and vegetable matter from the shores, and noxious filth from the sewers, long held in suspension on the flowing and ebbing current and finally precipitated to the bottom, where to the depth of several feet it is commingled with *detritus* washed down the stream, and can be effectually removed only by dredging. On account of the large quantity of soda in sea-water, probably much the largest portion of filth is precipitated while ascending the river on the flood tide, when the incoming current from the sea fills the basin. It is therefore evident that the river can be thoroughly purified only by controlling its banks, putting them in proper condition to be kept clean, and dredging the filth from its bottom.

The completion of the Metropolitan Sewerage System, which it is hoped may be looked for within two or three years, will doubtless relieve the Charles River from continued pollution by sewage; but it will not cleanse it of existing defilement, which makes it not only unsightly and at times offensive, but is a constant menace to the lives and health of all our people. Even now the peril may lie at our very doors, in readiness on any favoring season to appear in the form of malignant fevers, easy to prevent by proper precautions, but difficult to extirpate when they have once gained a foothold. A few years since malaria was unknown in this vicinity and any one expressing apprehensions of it would have been ridiculed by our oldest practitioners; now there are few if any physicians in this city who do not number among their patients several cases of malaria of local origin.

To remove the impending peril to our city, and convert an offensive and noxious locality into a pleasant resort for healthful recreation, it will be necessary to take a strip of land say two hundred feet wide, extending to the Harbor Commissioner's Line along the entire river front, from West Boston Bridge to, and including the Longfellow Park on Mt. Auburn Street, except at points where substantial improvements are already extended to the commissioners' line. On the outer edge of this strip a suitable retaining wall should be constructed, and the river then dredged of its foul

deposits outside of the wall; using the dredging for filling inside the wall, and covering it with a surface of clean gravel. By the new system of hydraulic dredging now extensively employed, the cost of such work is much reduced from the prices that prevailed a few years since.

The East Cambridge shore, from Craigie's Bridge to Broad Canal, it is understood, will be cared for by a syndicate of capitalists, who have already acquired the fee to the land, and are now constructing a sea wall and filling the territory. The Charles River Embankment Company is rapidly pushing the construction of about four thousand three hundred and thirty-three running feet of sea wall and embankment near Harvard Bridge; and by the terms of the contract, between the company and the city of Cambridge, a boulevard two hundred feet wide extending the entire length of the embankment is to be forever dedicated to the use of the people as a public way and park. And with the coöperation of the trustees of the Cambridge Hospital and other riparian owners, westerly of the Longfellow Park, the improvement may at any time in the future be extended up the river to include Cambridge Cemetery, if the city shall so determine, leaving about fifteen thousand two hundred running feet of shore which ought to be taken and improved as soon as practicable at a cost not exceeding eight hundred and eighty-four thousand dollars ($884,000) for taking the land two hundred feet wide, building the retaining wall, and filling and gravelling complete. This will give an area, including the boulevard of the Embankment Company, of nearly ninety acres of land, and about six hundred and sixteen acres of water surface in front of the wall, in the Basin of the purified Charles River, which will be the great reservoir of fresh air from which the local playgrounds and breathing-places must in large part be supplied, and the source of supply should be kept pure.

To the early consummation of such an important undertaking it is believed nothing is wanting but fostering state legislation, that can doubtless be readily obtained, and the approval of a united public sentiment that will be fully warranted by the security the work will give to life and health, by the attractiveness it will add to our city, and by the increased taxable valuation that will result therefrom, which, apart from the sanitary considerations, will with the liberal betterments that may justly be levied upon adjoining lands, probably in a few years, more than compensate for the entire

outlay; and leave an annual surplus after making ample provision for interest and a proper sinking fund.

It is believed that many riparian owners and especially the corporate authorities of Harvard University will heartily coöperate in the prosecution of this enterprise; and assurances are given that if such a public improvement shall be effected, private capital will enter and complete the work of reclaiming the flats and marshes, by filling and gravelling them and putting the ground in suitable condition for eligible sites of a superior class of buildings.

Some of our citizens apparently comfort themselves with the delusive hope that at some time the Commonwealth may come to the relief of the imperilled communities, and prosecute this work as a great sanitary necessity. Such a hope is obviously groundless. Whether or not the enterprise is undertaken through the agency of commissioners appointed by the state, or by commissioners representing the several cities and towns situated upon the river; and whether or not the state shall issue its bonds in aid of the work, as in the case of the Metropolitan Sewerage System, it is evident that the cost, principal and interest must ultimately be met by the communities concerned. The legislature will not and the courts cannot sanction an expenditure of public funds for the prosecution of such a local work.

Cambridge holds the key to the situation; for that part of the river bank that is most unsightly, the most offensive and the most menacing, and is susceptible of the greatest improvement by being made attractive, valuable and healthful, lies within its borders; and whatever improvement the city of Cambridge shall determine to enter upon will be quickly followed, if not anticipated by the city of Boston and other cities and towns upon both banks of the river.

Therefore, this committee earnestly recommends that steps be taken as early as practicable to begin the work of transformation herein outlined, and that it be pushed to completion with the least possible delay; enclosing the entire river front of the city, from West Boston Bridge to the westerly line of Longfellow Park with an effectual barrier against disease and creating a promenade, boulevard and park unsurpassed by any in the country.

The opportunities for Cambridge in this direction are very great. It is not too late to equip the city with a system of public resorts among the finest in the world, though there is no time to be lost. Let us not be misled by false cries of excessive expense and impossible burdens for a proper system of parks, demanded alike as an

imperative sanitary necessity, as a conservator of public morality and popular contentment, and as a means of reducing the rate of taxation by increasing the taxable values.

The attention of the City Council is respectfully invited to a communication from the Metropolitan Park Commission, by its secretary, Sylvester Baxter, Esq., under date of November 3, in the appendix hereto, suggesting that Captain's Island be secured by this city as a feature of the comprehensive improvement of the river banks. The committee concurs in the suggestion as a proposition for future consideration, when definite and effective measures have been adopted to improve the sanitary condition of the river.

Respectfully submitted,

EDWARD W. HINCKS,
DANIEL U. CHAMBERLIN,
JOHN O'BRIEN,
JAMES A. FOX,
HENRY D. YERXA,
} *Committee.*

*Post Scriptum:* A special report upon the matter of the "Clay Pits" referred to this committee by the City Council, will be made as soon as the surveys and the plans necessary to the proper consideration of the subject are completed by the City Engineer. This committee is inclined to think that this matter should be treated entirely separate from the subject of Public Parks.

EDW. W. HINCKS,

*Chairman.*

# APPENDIX.

## Statistics Concerning Population.

Population by census of 1885, and 1890, and as indicated by number of Polls in 1892, by wards.

| WARDS. | 1885. | 1890 | Estimated, 1892. |
|---|---|---|---|
| 1 | 10,271 | 12,811 | 14,668 |
| 2 | 16,711 | 19,172 | 22,029 |
| 3 | 11,541 | 12,761 | 13,961 |
| 4 | 14,341 | 16,994 | 18,297 |
| 5 | 6,794 | 8,290 | 9,668 |
| TOTAL. | 59,658 | 70,028 | 78,623 |

Average population to each inhabited acre, 1885, 1890, and estimated, 1892, by wards.

| WARDS. | No. of Acres. | Population to Acre, 1885. | Population to Acre, 1890. | Est. Population to Acre, 1892. |
|---|---|---|---|---|
| 1 | 1,095.6 | 9.4 | 11.7 | 13.4 |
| 2 | 463.3 | 36. | 41.4 | 47.5 |
| 3 | 250. | 46.2 | 51. | 55.8 |
| 4 | 463.3 | 31. | 36.7 | 39.5 |
| 5 | 652.1 | 10.4 | 12.7 | 14.8 |
| WHOLE CITY. | 2,924.3 | 20.4 | 23.9 | 26.9 |

Number of deaths, 1885, 1890 and 12 months ending Oct. 31, 1892, by wards.

| WARDS. | 1885. | 1890. | 12 months ending Oct. 31, 1892. |
|---|---|---|---|
| 1 | 198 | 184 | 196 |
| 2 | 428 | 371 | 538 |
| 3 | 246 | 266 | 295 |
| 4 | 269 | 306 | 362 |
| 5 | 167 | 149 | 179 |
| TOTAL. | 1,308 | 1,276 | 1,570 |

Number of deaths to each 1,000 population, 1885, 1890, and 1892, by wards.

| WARDS. | 1885. | 1890. | 12 months ending Oct. 31, 1892. |
|---|---|---|---|
| 1 | 19.3 | 14.4 | 13.4 |
| 2 | 25.6 | 19.4 | 24.4 |
| 3 | 21.3 | 20.8 | 21.1 |
| 4 | 18.7 | 18. | 19 8 |
| 5 | 24.6 | 18. | 18.5 |
| WHOLE CITY. | 21.9 | 18.2 | 20.0 |

From the foregoing it appears that an average density of population throughout the city equal to that now existing in Ward Three, would give a total of 163,175, and an average density equal to that now existing in Ward Two would give a total of 138,904 inhabitants. The present population of the city indicated by the number of polls, which the City Clerk deems a correct basis for a close approximation to actual facts, is 78,623, a gain of 8,595 in two years, or more than six per cent. per annum.

An annual increase of four per cent., the average rate of increase for the last seven years, added to the population of the city in 1890

(70,028), would give a population of 153,400 in 1910, eighteen years from the present time.

From these facts, as well as from daily observation, it is apparent that the city has entered upon a period of rapid and permanent growth, and it may be fairly estimated that in 1910 its population will not be less than 140,000, and possibly may exceed 150,000.

## Opinions of the City Solicitor.

*CITY OF CAMBRIDGE.*

OFFICE OF CITY SOLICITOR,
Nov. 3, 1892.

DEAR GENERAL:

The following questions from the Committee on Parks were received and have been duly considered, viz.:

"1. Under the provisions of the Park Act of 1892, Chap. 341, or any other, can the city government expend the whole amount authorized to be expended for park purposes ($200,000) for the purchase of land, without any provision for its improvement except by annual appropriation from the tax levy?"

"2. Under said Act of the legislature, can the city government dedicate to park purposes lands owned by the city whose valuation is in excess of the $200,000 authorized to be expended for park purposes? or must the valuation of any public lands that may be dedicated to the purposes of a public park be included in the amount ($200,000) authorized to be expended for parks?"

To both of these questions I answer, Yes, and say that, in my opinion, the valuation of any public lands now held by the city which it wishes to dedicate to park purposes need not be included in the $200,000 mentioned in Section 8 of the Act.

Respectfully submitted,

CHAS. J. McINTIRE,
*City Solicitor.*

TO GEN. E. W. HINCKS,
*Chairman Committee on Parks.*

## Communication from the Metropolitan Park Commission Respecting Captain's Island.

METROPOLITAN PARK COMMISSION,
COMMONWEALTH OF MASSACHUSETTS,
BOSTON, Nov. 3, 1892.

*Gen. E. W. Hincks, Chairman of the Park Committee, Cambridge, Mass.* —

DEAR SIR,— In our trip along the Charles River, the other day, the members of our party were much impressed by Captain's Island and the fine feature that might be made of it in connection with the improvement of the

river banks. It seems important that something should be done with the least possible delay, to prevent the further injury and defacement of the locality, for the damages already inflicted could be repaired with practically little trouble if the work of destruction was only stopped where it is.

It was suggested by some of the party that it would be well to bond the territory pending the framing of measures necessary to the comprehensive improvement of the river. This, I suppose, could be done at slight expense, and I therefore take the opportunity to repeat the suggestion to you, hoping that your Committee may see some way to accomplish the object.

Very truly yours,

SYLVESTER BAXTER,

*Secretary.*

CAMBRIDGE, Oct. 25, 1892.

*To His Honor, the Mayor:* —

DEAR SIR, — The Committee on Parks hopes to be able to submit a definite plan for the system of public parks as soon as the surveys and plans necessary for an intelligible expression of opinion have been made and fully considered and some points of law already in part submitted to the City Solicitor have been determined and their bearing upon the matter duly weighed.

But the Water Board has requested this committee to make a special report at once upon the expediency of taking a certain tract of land indicated upon the accompanying sketch by the City Engineer, to improve the public land and driveway around Fresh Pond, with the condition that the tract be transferred to the Water Board, and the cost of taking it be repaid from the funds controlled by that Board; which transfer and repayment can be made only under the sanction of the state legislature, hereafter to be obtained. The reasons for urgency presented by the Water Board are that the land is now being built upon, and any delay in taking it will increase its cost.

As at present advised, this committee is not prepared to recommend the acquirement of the tract of land in question as a part of the system of parks authorized to be established at a cost not exceeding two hundred thousand dollars; for the committee is firmly convinced that the condition of the people in the congested centres of population imperatively demands the expenditure of every dollar of this sum ($200,000) to provide suitable breathing-places in the immediate vicinity of such populous centres, for the preservation of the public health.

As a part, however, of an ultimate system of parks that may be

recommended, the tract in question merits careful consideration, for it is unquestionably a beautiful tract for the purpose proposed, and its location seems to make its acquisition very desirable, and it will greatly enhance the value, for park purposes, of the public lands and ways about Fresh Pond.

If it is the desire of the City Council to take this land, and if it can be taken with a certainty that no impairment of the funds to be made available for more important and indispensable park expenditures will result therefrom, it is not the wish of this committee to interpose any objection thereto, but, on the contrary, it approves of the taking under such conditions.

Very respectfully,

EDW. W. HINCKS,

*Chairman Committee on Parks.*

OFFICE OF THE CITY ENGINEER,
CAMBRIDGE, Dec. 5, 1892.

*To Hon. Alpheus B. Alger, Mayor:* —

DEAR SIR, — I have the honor to acknowledge the receipt of a communication from you dated Oct. 6, 1892, directing the preparation "for the use of the Committee on Parks, of a survey of the flats and marshes along the Harbor Commissioner's Line necessary to take to extend a sea wall and boulevard two hundred feet wide, from the Esplanade of the Charles River Embankment Company northerly to Craigie's Bridge, and westerly from the Brookline Bridge to the Longfellow Park, on Mt. Auburn Street, except at points where valuable and permanent improvements extend to the channel of the river (or Commissioner's Line). The survey to show each lot of land necessary to be taken, and the area and owners thereof."

Upon conference with the Chairman of the Committee on Parks, Gen. Edward W. Hincks, it was decided not to extend the survey, at present, to that portion of the river front included between the Craigie and West Boston Bridges.

Upon the remainder of the river front such preliminary surveys and soundings have been made as seemed necessary at this time, and a plan showing in detail the results of the survey and the areas and owners of the various lots of land necessary to be taken is now well under way and will be completed at an early day.

### Land to be Taken.

In carrying out a work of this kind one of the first questions which will naturally be considered, is the amount of land necessary to be taken. The following is a condensed statement of the amounts of land included between the Harbor Commissioner's Line and a parallel line two hundred feet distant therefrom, and bounded by the sides of the intersecting streets.

**Statement showing areas in Charles River Park or Boulevard.**

| | Area in Acres. | | | |
|---|---|---|---|---|
| | | Flats. | Marsh. | Total. |
| West Boston Bridge to the easterly line of the Charles River Embankment Co.... | | 10.33 | | 10.33 |
| Line of the Charles River Embankment Co. to Front St..... | 7.57 | | | |
| Front St. to westerly line of the Charles River Embankment Co..... | 12.57 | | | |
| Westerly line of Charles River Embankment Co. to Brookline St..... | | 10.21 | .33 | 10.54 |
| Brookline St. to River St..... | | 7.87 | 9.44 | 17.31 |
| Western Ave. to Boylston St ..... | | 4.71 | 9.68 | 14.39 |
| Boylston St. to opposite the westerly line of Longfellow Park..... | | 2.65 | 7.60 | 10.25 |
| | 20.14 | 35.77 | 27.05 | 62.82 |

| | |
|---|---|
| Add area of Embankment Company's Land . . . . . | 20.14 |
| Total acres . . . . . | 82.96 |

Giving a total area, when the plan is completed between the limits named, of 3,614,281.0 sq. ft., or 82.96 acres, not including the areas of the streets crossing the Boulevard, which would add an area of 71,200 sq. ft., or 1.63 acres to that given above.

A part of the area included between the easterly and westerly lines of the Charles River Embankment Company is owned by persons in their own right, or conjointly with the company. As this

land, however, is already filled nearly to the grade, and has a sea wall now constructed on its front, it is here considered as a part of the Embankment Company's land.

The section lying between River Street and Western Avenue, owned and occupied by the city of Cambridge, H. O. Houghton & Co., and the Cambridge Electric Light Co., having "valuable and permanent improvements" upon it was not included in the statement.

### Sea Wall.

The next important item to be considered is the sea wall which will bound the Boulevard on the river side. The surveys and soundings made show that while large deposits of mud and soft material exist in parts of the location, no especial difficulty need be apprehended in founding the wall on piles of suitable length.

The Embankment Company has already constructed along its front a length of 2,385 feet of wall, leaving 1,948 feet of wall still to be built by them.

The following is a statement of the length of wall necessary to enclose the proposed Boulevard, as measured along the Harbor Commissioner's Line.

**Statement showing length of sea wall on Charles River Park or Boulevard.**

| | | |
|---|---|---|
| West Boston Bridge to east line Charles River Embankment Co. | | 2,460 |
| East line Charles River Embankment Co. to Front St. | 1,595.6 | |
| Front St. to west line Charles River Embankment Co. | 2,737.4 | |
| Charles River Embankment Co. to centre of Brookline St. | | 2,457 |
| Centre of Brookline St. to south side of River St | | 3,990 |
| River St. to Western Ave. (1,060 ft. not included in this estimate) | 1,060.0 | |
| Western Ave. to Boylston St | | 3,180 |
| Boylston St. to opp. the westerly line of Longfellow Park | | 2,200 |
| Length to be built by city | | 14,287 ft. |
| Length of wall of Embankment Co.* | | 4,333 ft. |
| Total length of wall* | | 18,620 ft. |

*Including 2,385 feet already built by the Embankment Co.

### Filling.

To bring to the proper grade the areas of flats and marsh proposed to be taken will require a very large amount of filling. Unless it was decided to wait for the slow process of filling with ashes and city refuse it would seem that the quickest and most economical method would be to dredge the material from the bed of the adjacent river.

An approximate estimate of the filling required is 1,240,000 cubic yards. Having the filling in place the finishing with gravel, loam or Macadam can be carried out as deemed best in the future.

### Estimate of Cost.

To determine the value of the flats and marsh to be taken is a somewhat difficult matter. The major part of the lands is valued by the assessors at from 1½ to 5 cents per sq. ft.; some of the improved land at from 10 to 20 cents per sq. ft. As a fair average value $1,500 per acre has been assumed in the estimate given below:

ESTIMATE.

| | |
|---|---|
| 62.82 acres land taken at $1,500 | $94,230 00 |
| 14,287 linear feet of sea wall at $25.00 | 357,175 00 |
| 1,240,000 cubic yards of filling at 35 cents | 434,000 00 |
| Total cost | $885,405 00 |

Of the sanitary and engineering value of the plan proposed there can be no question. With the removal of the sources of pollution in the river, there is also remaining the necessity of improving the present condition and abating the existing evil.

It would seem as though nothing could be devised which would so well remedy the trouble and prove so valuable an improvement.

The surveys of the "Clay Pits" in Wards One and Five, mentioned in the communication from Your Honor above referred to, are now completed, and the plans and results will be submitted at an early day.

Very respectfully,

L. M. HASTINGS,

*City Engineer.*

CAMBRIDGE, Dec. 16, 1892.

*Hon. Alpheus B. Alger, Mayor of Cambridge:* —

SIR, — The Committee on Public Parks, to whom was referred a communication to the Mayor from the Board of Health, inviting "attention to the fact that there are large areas of land, in Wards One and Five, used as clay-pits; the present condition of which warrants the belief that they will become a menace to the public health, for which there seems to be no remedy except complete ownership by the city;" and recommending "that measures be taken with reference to obtaining these lands for park purposes;" has duly considered the subject and respectfully submits the following report:

According to the report and plans of the City Engineer, herewith submitted, complete ownership by the city, of the territory containing the clay-pits now existing, will involve the necessity of acquiring about 180 acres of land, valued by the city assessors at $198,200, and to fill these pits with earth will require about 2,150,000 cubic yards of filling.

It is undoubtedly true, that within a few years some cases of malaria have appeared in the vicinity of the brick-yards where the disease was previously unknown; but it may be questioned whether the appearance of malaria in the vicinity is conclusive proof that it emanates from the clay-pits. The process of brick-making itself — rapidly alternating wet and dry surfaces under a hot sun, and moisture a short distance beneath the surface, though that may be dry and parched — affords the most favorable conditions for the development of the disease; and the exposure of large areas of muddy bottom during the progress of the work at Fresh Pond, may have temporarily contributed in no small degree to those conditions. It is worthy of remark that brick-making is prohibited in several metropolitan districts in Europe.

Nevertheless the clay-pits are here, threatening to become, if not already, a serious nuisance to the people of Cambridge, and the importance of some action being promptly taken to abate the evil has been earnestly presented to this committee by a number of citizens of that section of the city; but how to treat them is a problem not easily solved. It will be of little avail to attempt to fill a portion of these pits with earth, if the work of reproducing them is to

be continued indefinitely; and apparently the city possesses no power to prevent such excavations in anticipation of evils resulting therefrom; the mischief must actually exist before it can be reached by any process of law. When a nuisance does exist the power of the Board of Health appears to be ample to cause it to be abated at the expense of the owners.

It has been suggested that, with the consent of the owners, the abandoned clay-pits may be suitably enclosed and filled with water from the surplus of the city water supply, which if occasionally replenished would probably be kept pure; as it is alleged that water more than ten or twelve feet deep is in a measure self-purifying by natural process.

This would, if practicable, be the least expensive method of treating the evil. But the suggestion is objected to on the ground that the filling of the pits with water will aggravate the nuisance and increase the danger of malaria; on the other hand, eminent authorities on malaria, jungle fever, African fever, and cognate diseases, seem to agree that marshes, swamps and other noxious localities, when completely covered with water, are absolutely innocuous, and it is only when the moisture is drying up under the influence of the sun, that they become pestilential. Some of these pits have been flooded for twenty years or more, without further care, and the water is apparently clear and free from offensive odors.

It does not appear that these lands are necessary for park purposes, and their location would render them of little value to the people at large, as places of public resort. It is therefore recommended that this subject be treated by the Board of Health as a sanitary measure, entirely separate from the question of public parks; at least until it is ascertained that the courts will not sustain the Board of Health in proceeding against the abandoned clay-pits, as common nuisances that may be abated at the expense of the owners. It seems but just and equitable that those who have taken fortunes out of these pits should leave them in a condition that will not be detrimental to the health and comfort of the people.

The City Solicitor, Hon. Charles J. McIntire, has been consulted concerning this subject, and his opinion is in entire concurrence with the views of this committee. He says: "I am unfortunately obliged to give as my opinion, that I do not know of any power in the city to prevent the excavation of clay-pits in private lands for

the manufacture of the articles you mention (bricks, pottery, etc.), or to force parties to make such excavations conditional upon their being refilled. Should excavations exist which, by reason of stagnant water or otherwise, have become deleterious to public health or public comfort, it seems to me to be within the province of the Board of Health to order the nuisance abated in the manner provided by Public Statutes, Chapter 80, Sections 28 to 38."

Respectfully submitted,

For the Committee,

EDW. W. HINCKS,

*Chairman.*

Cambridge, Dec. 20, 1892.

*Hon. Alpheus B. Alger, Mayor:* —

Sir, — The Committee on Public Parks began its active labors about the middle of September, 1892, and has held twenty stated meetings, at which the attendance of members has been very constant; a quorum has never been wanting and rarely has a member been absent. The committee has also given a public hearing at the City Hall and several individual hearings in its rooms; it has visited and re-visited almost every part of the city, and has thoroughly investigated the populous districts; it has examined the banks of the Charles River from Boston to Watertown, and by invitation of the Metropolitan Park Commission, has viewed Spy Pond, the Waverly Oaks, Beaver Brook and Prospect Hill; it has been in communication with the Metropolitan Park Commission, the Commission for the Improvement of the Charles River, the Boston Park Commissioners and the Charles River Embankment Company. The committee has submitted to the City Council, through His Honor, the Mayor, three Special Reports, to wit: — One — On a request of the Water Board for coöperation in extending the Park around Fresh Pond; Two — On a system of Public Parks for the city of Cambridge, with recommendation for the improvement of the banks of the Charles River; and Three — On the recommendation of the Board of Health that the lands containing the clay-pits in Wards One and Five be obtained for park purposes.

There has been appropriated for the expenses of the committee, the sum of $200. The expenses of the committee have been as follows:

| | |
|---|---|
| Carriage hire | $69 38 |
| Printing report | 40 20 |
| Record Book | 5 25 |
| Stationery | 5 17 |
| Advertising in Cambridge Tribune | 2 50 |
| Clerk hire | 75 00 |
| Total expenditure | $197 50 |
| Balance unexpended | $2 50 |

Respectfully submitted,

EDW. W. HINCKS,
DANL. U. CHAMBERLIN,
JOHN O'BRIEN,
JAMES A. FOX,
HENRY D. YERXA,
} *Committee.*

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CAMBRIDGE, Dec. 20, 1892.

*Hon. Alpheus B. Alger, Mayor of Cambridge:* —

SIR, — In the report of the Committee on Parks, I omitted to state that, though the committee had no power to enter into contracts or to execute bonds, it endeavored to obtain from owners of lands recommended to be taken offers of a minimum price that they would accept for such lands; and with reference to the Binney property and the Rindge Field definite offers were made, which the committee believed to be reasonable; but these offers were conditional upon the early completion of the taking, and the owners declined to hold their lands on an uncertainty for an indefinite period.

A similar understanding was reached with a portion of the owners of the lots between Sixth and Ninth Streets, East Cambridge.

I am, very respectfully, your obedient servant,

EDWARD W. HINCKS,

*Chairman.*

# REPORT OF THE SCHOOL COMMITTEE.

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In compliance with Section 142 of the Rules and Regulations, the Superintendent herewith submits his eighteenth annual report for the year ending December 31, 1892.

### Population of Cambridge.

| | | | |
|---|---|---|---|
| 1840 | 8,409 | 1870 | 39,634 |
| 1850 | 15,215 | 1875 | 47,838 |
| 1855 | 20,473 | 1880 | 52,699 |
| 1860 | 26,060 | 1885 | 59,658 |
| 1865 | 29,112 | 1890 | 70,028 |

### School Census.

Number of children in the city on the first of May, five years old or more, but less than fifteen, as reported by the Truant Officers.

| | | | |
|---|---|---|---|
| 1875 | 8,128 | 1884 | 10,682 |
| 1876 | 8,218 | 1885 | 10,957 |
| 1877 | No census | 1886 | 11,131 |
| 1878 | 8,422 | 1887 | 11,216 |
| 1879 | 8,885 | 1888 | 11,727 |
| 1880 | 9,390 | 1889 | 11,750 |
| 1881 | 9,582 | 1890 | 11,971 |
| 1882 | 10,370 | 1891 | 12,160 |
| 1883 | 10,490 | 1892 | 12,451 |

## Schools and Class-rooms.

| | | | |
|---|---|---|---|
| Latin School | 1 | Number of class-rooms | 8 |
| English High School | 1 | " " " | 13 |
| Grammar Schools | 11 | " " " | 122 |
| Primary Schools | 21 | " " " | 111 |
| Kindergartens | 6 | " " " | 7 |
| Evening Drawing Schools | 2 | " " " | 7 |
| Evening High School | 1 | " " " | 6 |
| Evening Elementary Schools | 3 | " " " | 12 |
| Whole number of Day Schools | | | 40 |
| Number of class-rooms for Day Schools | | | 261 |

## High School and Grammar School Houses.

| School Houses. | Number of Class-rooms. | Estimated Value. | Size of Lots, sq. ft. | Estimated Value. | Total Value. |
|---|---|---|---|---|---|
| Latin | 8* | $40,000 | 37,828 | $15,900 | $55,900 |
| English High | 11† | 220,000 | 74,366 | 18,000 | 238,000 |
| Allston | 12‡ | 30,000 | 15,193 | 4,600 | 34,600 |
| Corlett | 2 | 3,000 | 10,000 | 1,000 | 4,000 |
| Harvard | 16‡ | 45,000 | 20,494 | 12,000 | 57,000 |
| Morse | 14‡ | 73,000 | 25,650 | 7,000 | 80,000 |
| Peabody | 6 | 27,000 | 21,813 | 7,000 | 34,000 |
| Putnam | 13‡ | 60,000 | 11,900 | 8,300 | 68,300 |
| Shepard | 11 | 30,000 | 14,755 | 7,000 | 37,000 |
| Thorndike | 12 | 30,000 | 10,027 | 4,000 | 34,000 |
| Washington | 12‡ | 25,000 | 14,951 | 7,000 | 32,000 |
| Webster | 16‡ | 50,000 | 25,839 | 9,000 | 59,000 |
| Wellington | 13‡*a* | 42,000 | 27,673 | 8,300 | 50,300 |
| Total | 146 | $675,000 | 310,489 | $109,100 | $784,100 |

*Also a library, a physical laboratory and an assembly hall.

†Also five recitation rooms, a library, a physical laboratory, a chemical laboratory, a lecture room, and an assembly hall.

‡Also an assembly hall.

*a*On the same lot there is another school house containing four rooms used for primary classes.

## Primary School Houses.

| School Houses. | Number of Class-rooms. | Estimated Value. | Size of Lots, sq. ft. | Estimated Value. | Total Value. |
|---|---|---|---|---|---|
| Agassiz | 7 | $18,000 | 19,689 | $6,000 | $24,000 |
| Boardman | 8 | 12,000 | 10,018 | 4,000 | 16,000 |
| Bridge | 2 | 500 | 4,646 | 1,400 | 1,900 |
| Cushing | 2 | 3,000 | 14,787 | 1,000 | 4,000 |
| Dana | 4 | 2,000 | 14,317 | 4,300 | 6,300 |
| Dunster | 4 | 4,000 | 10,000 | 2,000 | 6,000 |
| Felton | 4 | 6,000 | 15,090 | 4,500 | 10,500 |
| Gannett | 4 | 12,000 | 15,434 | 3,000 | 15,000 |
| Gore | 12 | 25,000 | 9,900 | 4,000 | 29,000 |
| Holmes | 4 | 6,000 | 11,182 | 4,500 | 10,500 |
| Lassell | 4 | 8,000 | 10,000 | 2,500 | 10,500 |
| Lowell | 4 | 7,000 | 12,033 | 2,500 | 9,500 |
| Otis | 8 | 12,000 | 8,270 | 4,000 | 16,000 |
| Quincy | 2 | 10,000 | 8,469 | 5,000 | 15,000 |
| Reed | 4 | 4,000 | 12,000 | 1,200 | 5,200 |
| Riverside | 4 | 5,000 | 11,192 | 3,000 | 8,000 |
| Sargent | 4 | 3,000 | 9,995 | 4,000 | 7,000 |
| Stearns | 4 | 3,000 | 10,050 | 5,000 | 8,000 |
| Tarbell | 4 | 8,000 | 19,500 | 4,000 | 12,000 |
| Willard | 12 | 25,000 | 20,079 | 5,000 | 30,000 |
| Wyman | 6 | 6,000 | 14,347 | 3,000 | 9,000 |
| Total | 107 | $179,500 | 260,998 | $73,900 | $253,400 |

## Number of teachers in the Day Schools.

[Special teachers are included in the total.]

| December. | Latin School. | English High School. | Grammar Schools. | Primary Schools. | Kinder-gartens. | Total. | Normal Gradu-ates. |
|---|---|---|---|---|---|---|---|
| 1887 | 9 | 12 | 113 | 100 | .. | 237 | 131 |
| 1888 | 10 | 12 | 115 | 102 | .. | 241 | 155 |
| 1889 | 10 | 14 | 118 | 100 | 7 | 251 | 142 |
| 1890 | 10 | 15 | 121 | 101 | 11 | 263 | 146 |
| 1891 | 10 | 16 | 126 | 104 | 11 | 272 | 161 |
| 1892 | 10 | 19 | 131 | 106 | 12 | 284 | 166 |

## Attendance at all the Day Schools.

| Year. | Number of Pupils Registered. | Average Number Belonging. | Average Daily Attendance. | Per cent of Attendance. |
|---|---|---|---|---|
| 1875 | 9,411 | 7,167 | 6,527 | 91. |
| 1880 | 8,537 | 7,175 | 6,614 | 92.2 |
| 1885 | 10,213 | 8,650 | 7,915 | 91.5 |
| 1890 | 11,914 | 10,089 | 9,325 | 92.4 |
| 1891 | 12,468 | 10,520 | 9,659 | 91.8 |
| 1892 | 12,845 | 10,861 | 9,959 | 91.7 |

## Attendance at the Latin School.

| Year. | Number of Pupils Registered. | Average Number Belonging. | Average Daily Attendance. | Per cent of Attendance. |
|---|---|---|---|---|
| 1887 | 196 | 181 | 175 | 96.5 |
| 1888 | 247 | 228 | 217 | 95.1 |
| 1889 | 239 | 217 | 207 | 95.5 |
| 1890 | 224 | 204 | 199 | 96.4 |
| 1891 | 231 | 213 | 204 | 95.7 |
| 1892 | 238 | 213 | 203 | 95.4 |

## Attendance at the English High School.

| Year. | Number of Pupils Registered. | Average Number Belonging. | Average Daily Attendance. | Per cent of Attendance. |
|---|---|---|---|---|
| 1887 | 351 | 318 | 302 | 95.1 |
| 1888 | 343 | 304 | 290 | 95.3 |
| 1889 | 397 | 345 | 331 | 96.1 |
| 1890 | 473 | 409 | 396 | 96.7 |
| 1891 | 552 | 480 | 464 | 96.6 |
| 1892 | 624 | 529 | 511 | 96.5 |

## Attendance at the Grammar Schools.

| Year. | Number of Pupils Registered. | Average Number Belonging. | Average Daily Attendance. | Per cent of Attendance. |
|---|---|---|---|---|
| 1887 | 5,334 | 4,628 | 4,317 | 93.3 |
| 1888 | 5,421 | 4,760 | 4,427 | 93.0 |
| 1889 | 5,602 | 4,864 | 4,517 | 92.9 |
| 1890 | 5,668 | 4,891 | 4,557 | 93.2 |
| 1891 | 5,793 | 5,052 | 4,701 | 93.1 |
| 1892 | 5,891 | 5,175 | 4,803 | 92.8 |

## Attendance at the Primary Schools.

| Year. | Number of Pupils Registered. | Average Number Belonging. | Average Daily Attendance. | Per cent of Attendance. |
|---|---|---|---|---|
| 1887 | 5,276 | 4,301 | 3,877 | 90.1 |
| 1888 | 5,485 | 4,465 | 4,031 | 90.3 |
| 1889 | 5,617 | 4,537 | 4,086 | 90.0 |
| 1890 | 5,321 | 4,403 | 4,011 | 91.1 |
| 1891 | 5,499 | 4,481 | 4,065 | 90.7 |
| 1892 | 5,697 | 4,650 | 4,203 | 90.4 |

## Attendance at the Kindergartens.

| Year. | Number of Pupils Registered. | Average Number Belonging. | Average Daily Attendance. | Per cent of Attendance. |
|---|---|---|---|---|
| 1890 | 228 | 183 | 163 | 89.6 |
| 1891 | 393 | 294 | 225 | 76.7 |
| 1892 | 395 | 294 | 239 | 81.2 |

## Number graduated from, and admitted to, the High Schools.

| Year. | Latin School. Course, 5 years. | Admitted to Latin School. | English High. Course, 4 years. | Admitted to English High. |
|---|---|---|---|---|
| 1892 | 22 | 85 | 52 and 25* | 230 and 85† |
| | Average age, 18 yrs. 1 mo. | Average age, 14 yrs. 7 mos. | 18 yrs. 9 mos.<br>18 yrs. ¼ mo.* | 15 yrs. 3 mos.<br>15 yrs. 3 mos.† |

* Manual Training School. Course, 3 years. † Manual Training School Class.

## Number graduated from the Grammar and Primary Schools.

| Year. | Gram'r Schools. Course, 6 years. | Average age of Graduates. | Primary Schools. Course, 3 years. | Average age of Graduates. |
|---|---|---|---|---|
| 1892 | 536* | 15 yrs. ⅘ mos. | 1,146† | 9 yrs. 10 mos. |
| | * 10% in 4 years, 27% in 5 years, 45% in 6 years, 18% in 7 years. | | † 5% in 2 years, 66% in 3 years, 20% in 4 years, 9% in 5 years. | |

## Number of pupils in the Latin School, December, 1892.

| Grade. | Boys. | Girls. | Total. | Per cent. |
|---|---|---|---|---|
| Fourteenth | 19 | 14 | 33 | .126 |
| Thirteenth | 22 | 18 | 40 | .153 |
| Twelfth | 28 | 17 | 45 | .172 |
| Eleventh | 29 | 30 | 59 | .225 |
| Tenth | 53 | 32 | 85 | .324 |
| Total | 151 | 111 | 262 | |

## Number of pupils in the English High School, December, 1892.

| Grade. | Boys. | Girls. | Total. | Per cent. |
|---|---|---|---|---|
| Thirteenth | 23 | 55 | 78 | .127 |
| Twelfth | 46 (30)* | 61 | 107 | .174 |
| Eleventh | 65 (32)* | 81 | 146 | .239 |
| Tenth | 141 (79)* | 141 | 282 | .460 |
| Total | 275 (141)* | 338 | 613 | |

* Manual Training School.

## Number of pupils in the Grammar Schools, December, 1892.

| Grade. | Boys. | Girls. | Total. | Per cent. |
|---|---|---|---|---|
| Ninth | 223 | 304 | 527 | .096 |
| Eighth | 313 | 345 | 658 | .120 |
| Seventh | 431 | 398 | 829 | .151 |
| Sixth | 470 | 496 | 966 | .176 |
| Fifth | 532 | 536 | 1,068 | .195 |
| Fourth | 716 | 719 | 1,435 | .262 |
| Total | 2,685 | 2,798 | 5,483 | |

## Number of pupils in the Primary Schools, December, 1892.

| Grade. | Boys. | Girls. | Total. | Per cent. |
|---|---|---|---|---|
| Third | 664 | 571 | 1,235 | .255 |
| Second | 788 | 717 | 1,505 | .311 |
| First | 1,114 | 985 | 2,099 | .434 |
| Total | 2,566 | 2,273 | 4,839 | |
| Kindergartens | 140 | 174 | 314 | |

**Number of pupils belonging to the Evening Drawing Schools with the average attendance.**

| 1887. | 1888. | 1889. | 1890. | 1891. | 1892. |
|---|---|---|---|---|---|
| 234 | 216 | 228 | 166 | 188 | 219 |
| 107 | 101 | 120 | 106 | 110 | 127 |

**Number of pupils belonging to the Evening Schools with the average attendance.**

| 1887. | 1888. | 1889. | 1890. | 1891. | 1892. |
|---|---|---|---|---|---|
| 311 | 356 | 425 | 739 | 1,020 | 1,013 |
| 124 | 149 | 181 | 298 | 362 | 329 |

**Number of pupils in the Private Schools in Cambridge including those in the Parochial Schools.**

| 1887. | 1888. | 1889. | 1890. | 1891. | 1892. |
|---|---|---|---|---|---|
| 1,651 | 1,785 | 2,037 | 2,050 | 2,127 | 2,235 |

**Cost of Instruction in the Evening Schools.**

| Year. | Elementary. | High. | Drawing. | Total. |
|---|---|---|---|---|
| 1887 | $932 00 | Opened Jan. 3, 1889. | $1,000 00 | $1,932 00 |
| 1888 | 1,058 00 | | 1,350 00 | 2,408 00 |
| 1889 | 1,247 00 | $855 00 | 1,230 00 | 3,332 00 |
| 1890 | 1,513 00 | 1,260 00 | 546 00 | 3,319 00 |
| 1891 | 1,851 50 | 1,191 25 | 867 00 | 3,909 75 |
| 1892 | 1,827 50 | 1,226 25 | 1,157 00 | 4,210 75 |

## Summary of the School Census, as taken by the Truant Officers, May, 1892.

[The Statutes make it the duty of the School Committee to ascertain annually the names and ages of all persons between the ages of five and fifteen years, belonging in their respective towns and cities on the first day of May.]

| | |
|---|---|
| Number of children in the city five years old or more, but less than fifteen | 12,451 |
| Number in Public Schools five years old or more, but less than fifteen | 10,088 |
| Number in Public Schools fifteen years old or more, as shown by the school register | 1,180 |
| Number in Private Schools five years old or more, but less than fifteen | 1,428 |
| Number not attending school five years old or more, but less than eight | 587 |
| Number not attending school eight years old or more, but less than fourteen | 176 |
| Number not attending school fourteen years old or more, but less than fifteen | 172 |
| Whole number not attending school five years old or more, but less than fifteen | 935 |
| Number in the city five years old or more, but less than six | 1,116 |
| Number in the city eight years old or more, but less than fourteen | 7,668 |

## Finances.

[For the financial year ending Dec. 1, 1892.]

| | |
|---|---|
| Cost of instruction in day schools | $207,144 22 |
| Cost of instruction in evening schools | 4,210 75 |
| Cost of care and repairs of school houses (day schools) | 46,191 39 |
| Cost of care of school houses (evening schools) | 1,938 00 |
| Cost of text-books and supplies | 12,420 34 |
| Incidental expenses | 895 07 |
| Expended on English High school house | 65,358 11 |
| Expended on Latin school house | 18,395 35 |
| Expended on Wellington school house | 8,550 00 |
| Total expenditures for all school purposes | $365,103 23 |
| Deducting receipts from the Hopkins Fund ($772.57) and for tuition of non-resident pupils ($965.50), actual cost of the schools to the city | $363,365 16 |
| Assessed value of real and personal estate, May, 1892 | $74,240,095 03 |
| Ratio of expenses for school purposes to the valuation of 1892 | .0049 |

## Cost of Instruction in the Day Schools.

[Salaries of teachers, superintendent, agent, and truant officers.]

| Year. | Number of Teachers January 1. | Average Number of Pupils. | Whole Cost. | Cost per Pupil. |
|---|---|---|---|---|
| 1876 | 176 | 7,066 | $164,818 00 | $23 32 |
| 1878 | 173 | 7,028 | 136,491 20 | 19 42 |
| 1880 | 182 | 7,175 | 130,371 75 | 18 17 |
| 1881 | 192 | 7,434 | 132,501 10 | 17 82 |
| 1882 | 200 | 7,898 | 137,328 55 | 17 38 |
| 1883 | 212 | 8,194 | 144,457 60 | 17 63 |
| 1884 | 216 | 8,414 | 152,290 62 | 18 09 |
| 1885 | 224 | 8,650 | 158,640 13 | 18 33 |
| 1886 | 233 | 9,218 | 165,277 42 | 17 92 |
| 1887 | 237 | 9,429 | 172,135 06 | 18 25 |
| 1888 | 241 | 9,756 | 175,773 80 | 18 02 |
| 1889 | 251 | 9,962 | 180,816 26 | 18 15 |
| 1890 | 263 | 10,089 | 190,558 21 | 18 89 |
| 1891 | 272 | 10,520 | 196,938 70 | 18 72 |
| 1892 | 284 | 10,861 | 207,144 22 | 19 07 |

## Cost of the Day Schools.

[The expenditures for new school houses are not included.]

| Year. | Number of Teachers January 1. | Average Number of Pupils. | Whole Cost. | Cost per Pupi |
|---|---|---|---|---|
| 1876 | 176 | 7,066 | $200,894 09 | $28 43 |
| 1878 | 173 | 7,028 | 162,437 77 | 23 11 |
| 1880 | 182 | 7,175 | 153,967 56 | 21 45 |
| 1881 | 192 | 7,434 | 158,282 84 | 21 29 |
| 1882 | 200 | 7,898 | 166,230 52 | 21 04 |
| 1883 | 212 | 8,194 | 177,149 93 | 21 62 |
| 1884 | 216 | 8,414 | 203,234 56 | 24 15 |
| 1885 | 224 | 8,650 | 206,806 09 | 23 90 |
| 1886 | 233 | 9 218 | 207,536 46 | 22 51 |
| 1887 | 237 | 9,429 | 222,679 19 | 23 61 |
| 1888 | 241 | 9,756 | 225,408 57 | 23 10 |
| 1889 | 251 | 9,962 | 229,421 31 | 23 03 |
| 1890 | 263 | 10,089 | 241,980 84 | 23 98 |
| 1891 | 272 | 10,520 | 249,491 67 | 23 71 |
| 1892 | 284 | 10,861 | 266,651 02 | 24 55 |

## Statistics taken from the Fifty-sixth Annual Report of the Secretary of the State Board of Education.

| | |
|---|---|
| Number of cities and towns: cities, 30; towns, 322 | 352 |
| Number of public schools | 7,336 |
| Number of pupils of all ages in the public schools during the year | 383,217 |
| Number of persons over fifteen years of age attending the public schools | 35,090 |
| Per cent of attendance based upon the average membership | 90 |
| Number of persons employed as teachers in the public schools during the year: men, 992; women, 9,973; total | 10,965 |
| Number of teachers who have graduated from Normal Schools | 3,267 |
| Average number of months the public schools have been kept for the entire year | 8.11 |
| Number of High Schools | 245 |
| Number of teachers in High Schools | 904 |
| Number of pupils in High Schools | 27,482 |
| Amount expended upon the public schools, exclusive of the expense of school buildings | $6,668,691 00 |
| Cost of new school houses, permanent improvements, and ordinary repairs | 2,646,865 00 |
| Entire expenditure for public school purposes | $9,315,556 00 |

## Special Institutions.

The following are the statistics of the attendance and expenses of the Massachusetts pupils in the several schools for the deaf, the blind, and the feeble-minded.

AMERICAN ASYLUM AT HARTFORD, CONN.

| | |
|---|---|
| Number of Massachusetts beneficiaries, 1891-92 | 74 |
| Paid for these pupils | $11,643 00 |

CLARK INSTITUTION, NORTHAMPTON.

| | |
|---|---|
| Number of Massachusetts beneficiaries, 1891-92 | 94 |
| Paid for these pupils | $15,940 00 |

HORACE MANN SCHOOL, BOSTON.

| | |
|---|---|
| Number of Massachusetts beneficiaries, 1891-92 | 101 |
| Paid for these pupils | $11,623 00 |

PERKINS INSTITUTION FOR THE BLIND.

| | |
|---|---|
| Number of Massachusetts beneficiaries, 1891-92 | 99 |
| Annual appropriation from the state | $30,000 00 |

SCHOOL FOR THE FEEBLE-MINDED, WALTHAM.

| | |
|---|---|
| Number of Massachusetts beneficiaries, 1891-92 | 142 |
| Annual appropriation from the state | $25,000 00 |

# TABULAR VIEW.

## JANUARY 1, 1893.

Prepared by the Secretary of the School Committee.

| Names of Schools. | Teachers. | Salaries. | No. of Pupils Jan. 1, 1893. |
|---|---|---|---|
| Latin | William F. Bradbury | $3,000 | 262 |
| | Theodore P. Adams | 2,000 | |
| | Charles W. Parmenter | 1,500 | |
| | Helen M. Albee | 950 | |
| | Charlotte C. Barrell | 950 | |
| | Caroline Drew | 570 | |
| | Mary C. Hardy | 875 | |
| | Margarette M. Leighton | 950 | |
| | Emma M. Sawyer | 950 | |
| | Jennie S. Spring | 950 | |
| | Annie S. Dodge* | 200 | |
| English High | Frank A. Hill | 3,000 | 613 |
| | Edwin L. Sargent | 2,000 | |
| | Charles F. Warner | 2,000 | |
| | Joseph A. Coolidge | 1,000 | |
| | Harriet E. Bird | 1,050 | |
| | Clara A. Armes | 950 | |
| | Caroline Close | 950 | |
| | Grace L. Deering | 950 | |
| | Myra I. Ellis | 1,000 | |
| | Maud A. Lawson | 750 | |
| | Henrietta E. McIntire | 600 | |
| | Mary Moulton | 950 | |
| | Louisa P. Parker | 1,000 | |
| | Caroline A. Sawyer | 950 | |
| | Emma A. Scudder | 950 | |
| | Martha R. Smith | 950 | |
| | Maria E. Spare | 950 | |
| | Delia M. Sickney | 1,050 | |
| | Anna M. Warren | 500 | |
| | Martha L. Babbitt* | 500 | |
| Allston | Benjamin W. Roberts | 2,000 | 590 |
| | Mary I. Vinton | 700 | |
| | Susan M. Adams | 620 | |
| | Sara A. Bailey | 620 | |
| | Mary Blair | 620 | |
| | Mary M. Brigham | 620 | |
| | S. Alice Fell | 620 | |
| | Evelyn B. Kenny | 620 | |
| | Ada M. Litchfield | 470 | |
| | S. Agnes Mulloney | 620 | |
| | Emily R. Pitkin | 620 | |
| | Elizabeth M. Ricker | 620 | |
| | Ida G. Smith | 620 | |
| | Caroline M. Williams | 620 | |

*Secretary and Librarian.

**Tabular View** — *continued.*

| Names of Schools. | Teachers. | Salaries. | No. of Pupils Jan. 1, 1893. |
|---|---|---|---|
| Harvard | James S. Barrell | $2,000 | 734 |
| | Arthur A. Lincoln | 1,200 | |
| | Ada H. Wellington | 700 | |
| | Margaret B. Wellington | 700 | |
| | Addie L. Bartlett | 520 | |
| | Theresa C. Bartlett | 620 | |
| | Elizabeth L. Buckley | 570 | |
| | Mary F. Emerson | 620 | |
| | Frances Fabyan | 620 | |
| | Estella J. French | 620 | |
| | Eliza S. Getchell | 620 | |
| | Isabella H. Howe | 620 | |
| | Melissa M. Lloyd | 400 | |
| | M. Florence McGlashan | 620 | |
| | Louise C. Patterson | 520 | |
| | Annie M. Street | 620 | |
| | Emma F. West | 470 | |
| | Hortense O. Young | 620 | |
| Morse { Grammar | Mary A. Townsend | 1,600 | { 366 |
| Morse { Primary | | | { 146 |
| | Mary E. Towle | 700 | |
| | Elizabeth J. Baldwin | 620 | |
| | Mabel L. Chamberlain | 520 | |
| | Stella L. Cotton | 400 | |
| | Marie B. Daniel | 470 | |
| | Mary M. Delamaria | 620 | |
| | Ellen M. Dewing | 620 | |
| | Annie M. Dow | 620 | |
| | Lucy A. Hall | 570 | |
| | Emily Richardson | 620 | |
| | Marcia E. Ridlon | 570 | |
| | Mary E. Sawyer | 620 | |
| | Gertrude D. Sprague | 470 | |
| Peabody | Frederick S. Cutter | 1,800 | 283 |
| | Addie F. Cleary | 700 | |
| | Susan Allison | 570 | |
| | Anna F. Bellows | 620 | |
| | Abbie L. Chapman | 620 | |
| | Charlotte A. Ewell | 620 | |
| | Florence E. Frost | 620 | |
| Putnam | Thomas W. Davis | 2,000 | 611 |
| | Charles C. Pierce | 1,000 | |
| | Eliza M. Hussey | 700 | |
| | Ella R. Avery | 620 | |
| | Annetta Bruce | 620 | |
| | Mary A. Carmichael | 570 | |
| | Lydia B. Collier | 620 | |
| | Sarah M. Grieves | 620 | |
| | Annie B. Joselyn | 620 | |
| | Louise A. Keeler | 620 | |
| | Augusta G. Mirick | 620 | |
| | Eliza S. Paddack | 620 | |
| | Louise A. Stickney | 620 | |
| | Mary M. Sullivan | 620 | |

**Tabular View** — *continued.*

| Names of Schools. | Teachers. | Salaries. | No. of Pupils Jan. 1, 1893. |
|---|---|---|---|
| Shepard | Edward O. Grover | $2,000 | 559 |
| | Nellie A. Hutchins | 700 | |
| | Mabel E. Blake | 620 | |
| | Harriet V. Dever | 620 | |
| | Emma A. Falkner | 620 | |
| | Emily F. Fessenden | 620 | |
| | Harriet Foster | 620 | |
| | Ellen J. Hunt | 620 | |
| | Gertrude Hunt | 620 | |
| | A. Estelle Ingraham | 620 | |
| | Flora C. Ingraham | 620 | |
| | Evelyn J. Locke | 620 | |
| Thorndike | Ruel H. Fletcher | 2,000 | 554 |
| | Harriet A. Townsend | 700 | |
| | Isabel R. Blackman | 400 | |
| | Grace W. Fletcher | 620 | |
| | Emma A. Hopkins | 620 | |
| | Abby A. K. Howard | 620 | |
| | Elizabeth G. Hutchison | 620 | |
| | Martha A. Martin | 620 | |
| | Mary E. Nason | 620 | |
| | S. Louise Regal | 620 | |
| | Abby S. Taylor | 620 | |
| | Laura A. Westcott | 620 | |
| | Lydia A. Whitcher | 620 | |
| Washington | John W. Freese | 2,000 | 508 |
| | Annie E. Whittier | 700 | |
| | Eldora J. Clark | 620 | |
| | Lucy A. Downing | 620 | |
| | Mary L. Ells | 620 | |
| | Alice P. Fay | 620 | |
| | Ellen A. Kidder | 520 | |
| | Winifred L. Kinsley | 620 | |
| | Margaret J. Penney | 620 | |
| | Hattie Shepherd | 620 | |
| | Mary E. Stiles | 620 | |
| | Abby M. Webb | 620 | |
| | Marion J. Wendell | 400 | |
| Webster | John D. Billings | 2,000 | 679 |
| | Melzar H. Jackson | 1,000 | |
| | Alice C. Phinney | 700 | |
| | Martha N. Hanson | 700 | |
| | Ada A. Billings | 620 | |
| | Ella E. Buttrick | 620 | |
| | Charlotte M. Chase | 620 | |
| | Susan I. Downs | 620 | |
| | Anna M. Ford | 620 | |
| | Helen M. Joyce | 620 | |
| | Edith M. Keith | 520 | |
| | M. Josephine Lamprey | 620 | |
| | Anna S. Lamson | 620 | |
| | Gertrude A. Long | 620 | |
| | Ruth D. Loring | 520 | |
| | Minnie V. Reid | 620 | |
| | Harriette E. Shepard | 520 | |

**Tabular View** — *continued.*

| Names of Schools. | Teachers. | Salaries. | No. of Pupils Jan. 1, 1893. |
|---|---|---|---|
| Corlett | Fannie P. Browning | $630 | 69 |
| | Mary L. Gamwell | 620 | |
| Agassiz { Grammar | Maria L. Baldwin | 700 | { 115 |
| Agassiz { Primary | | | { 187 |
| | Mary G. Carpenter | 620 | |
| | Amy Greaves | 400 | |
| | Rosina C. Karcher | 620 | |
| | Jennie Lyle | 570 | |
| | Minnie A. Noyes | 620 | |
| | Mary A. Parsons | 470 | |
| Boardman | Mary A. Lewis | 660 | 371 |
| | Christine R. Denyven | 620 | |
| | Alice Gregg | 620 | |
| | Nellie E. Hastings | 620 | |
| | Elizabeth J. Karcher | 620 | |
| | C. Florence Smith | 620 | |
| | Sarah E. Stewart | 620 | |
| Bridge | Emily C. Dallinger | 630 | 81 |
| | Mary M. Bucknam | 620 | |
| Cushing | Isadore I. Foster | 630 | 75 |
| | Ida B. Holt | 620 | |
| Dana | Maria F. Williams | 640 | 157 |
| | Emily J. Allen | 620 | |
| | Abby A. Lewis | 620 | |
| | Georgia E. Martin | 470 | |
| Dunster | Susan E. Wyeth | 640 | 147 |
| | Mary M. Burnham | 470 | |
| | Mary E. Colby | 620 | |
| | Isabel Foster | 620 | |
| Felton | Florence A. Rogers | 640 | 203 |
| | S. Emma Davis | 470 | |
| | Minnie F. Munroe | 620 | |
| | Carrie H. Smith | 620 | |
| Gannett | Sarah J. A. Davis | 640 | 160 |
| | Anna M. Jones | 620 | |
| | Mary A. Rady | 620 | |
| Gore | Frances E. Pendexter | 680 | 587 |
| | Anna E. Callahan | 620 | |
| | Addie H. Dale | 520 | |
| | Elizabeth B. Gahm | 620 | |
| | Anna M. Keough | 470 | |
| | Katherine L. McElroy | 620 | |
| | Mary C. McNally | 620 | |
| | Mary E. Mulloney | 620 | |
| | Anastasia Peters | 400 | |
| | Emma J. Ross | 620 | |
| | Jane E. Whoriskey | 400 | |
| Holmes | Marianne M. Webb | 630 | 80 |
| | Ellen M. Cyr | 620 | |
| Lassell | Ellen F. Ball | 640 | 192 |
| | Rose V. Collier | 620 | |
| | Cora A. Reycroft | 620 | |
| | Frances E. Whoriskey | 620 | |
| Lowell | Lucy E. Cyr | 640 | 133 |
| | Malvina Joslin | 520 | |
| | Agnes J. McElroy | 470 | |

**Tabular View** — *continued.*

| Names of Schools. | Teachers. | Salaries. | No. of Pupils Jan. 1, 1893. |
|---|---|---|---|
| Otis | Ellen N. Leighton | $660 | 363 |
| | Frances Allen | 620 | |
| | Bridget T. Boyle | 400 | |
| | Martha H. Butler | 620 | |
| | Josephine M. Doherty | 620 | |
| | Luella M. Marsh | 620 | |
| | Ellen C. Walsh | 620 | |
| | Kate F. Wellington | 620 | |
| Quincy | Charlotte E. Jewell | 630 | 85 |
| | Lucy C. Wyeth | 620 | |
| Reed | Margaret Kidd | 640 | 192 |
| | Margaret T. Burke | 620 | |
| | Harriet N. Keyes | 620 | |
| | Julia A. Robinson | 620 | |
| Riverside | Elizabeth A. Tower | 640 | 132 |
| | Amanda M. Alger | 620 | |
| | Mary A. Burke | 620 | |
| Sargent | Mary A. Brown | 640 | 209 |
| | Christina D. Barbey | 620 | |
| | Fanny C. Hartwell | 620 | |
| | Ella M. Leaver | 620 | |
| Stearns | Helen M. Ward | 640 | 189 |
| | Maria J. Bacon | 620 | |
| | Ellen A. Cheney | 620 | |
| | Eva A. Taylor | 620 | |
| Tarbell | Emma J. Young | 640 | 159 |
| | Florence J. Alley | 400 | |
| | Ellen F. McCarthy | 620 | |
| | Carrie P. Pierce | 520 | |
| Willard | Amelia Wright | 680 | 465 |
| | Sally N. Chamberlain | 620 | |
| | M. Elizabeth Evans | 620 | |
| | Ella F. Gulliver | 620 | |
| | Julia S. Gushee | 620 | |
| | Mary E. G. Harrington | 620 | |
| | Louise W. Harris | 620 | |
| | Katherine M. Lowell | 620 | |
| | Emma C. Otis | 620 | |
| | Eliza D. Watson | 620 | |
| | Grace R. Woodward | 620 | |
| | Laura Wright | 620 | |
| Wyman | Fannie E. M. Dennis | 645 | 293 |
| | Addie M. Bettinson | 620 | |
| | M. Carrie Dickman | 620 | |
| | Georgianna B. Dutcher | 620 | |
| | Geneveive S. Flint | 400 | |
| | Mary M. Gilman | 620 | |
| Wellington { Grammar | Herbert H. Bates | 2,000 | { 415 |
| Wellington { Primary | Susan G. Lumbert | 800 | { 233 |
| | Sarah J. Gunnison | 800 | |
| | Training Class | 4,000 | |
| Kindergartens. { Boardman | Mabel S. Eddy | 620 | 56 |
| | Grace Mulloney | 480 | |

**Tabular View** — *continued.*

| Names of Schools. | | Teachers. | Salaries. | No. of Pupils Jan. 1, 1893. |
|---|---|---|---|---|
| Kindergartens. | Dunster | Helen Willson | $620 | 43 |
| | | Clara A. Hall | 400 | |
| | Riverside | Ellen I. Hutchison | 620 | 58 |
| | | Martha Adams | 480 | |
| | Moore Street | Harriette E. Ryan | 620 | 57 |
| | | Mary Stewart | 440 | |
| | Gore | Selma E. Berthold | 620 | 55 |
| | | Mary Burnett | 480 | |
| | Lowell | Melinda Gates | 620 | 45 |
| | | Alice S. Brown | 480 | |
| Teachers of Sewing | | Agnes Gordon | 600 | |
| | | Georgia A. Jones | 600 | |
| Director of Drawing | | Walter F. Brackett | 1,700 | |
| Director of Music | | Frederick E. Chapman | 1,700 | |
| Truant Officers | | Moses M. Child | 900 | |
| | | Francis M. Mason | 900 | |
| | | John Collier | 900 | |
| | | John Carmichael | 700 | |

| | |
|---|---|
| Superintendent — Francis Cogswell | $3,000 |
| Special Primary Teacher — Lelia A. Mirick | 1,000 |
| Agent — Sanford B. Hubbard | 1,700 |
| Clerk — Althea B. Frost | 500 |

The Wellington School is a training school, composed of grammar and primary pupils taught by young ladies, graduates of Normal Schools and candidates for the position of teacher, under the direction and with the assistance of the master of the school and his assistants.

Temporary assistants and members of the Training Class are counted as eight teachers, the sum of their salaries being about equal to the amount paid to that number of regular teachers.

**The Post Office addresses of the several schools are as follows:**

Cambridge — English High, Peabody,* Washington,* Agassiz, Dunster, Holmes, Lowell, Quincy, Riverside.

Cambridgeport — Latin, Allston,* Harvard,* Morse,* Webster,* Boardman, Bridge, Dana, Felton, Gannett, Sargent, Stearns, Tarbell, Wellington,* Willard.

East Cambridge — Putnam,* Thorndike,* Gore, Lassell, Otis.

North Cambridge — Shepard,* Reed, Wyman.

Mount Auburn — Corlett,* Cushing.

* Grammar Schools.

## Summary.

| | |
|---|---|
| Number of pupils in Latin School | 262 |
| Number of pupils in English High School | 613 |
| Number of pupils in Grammar Schools | 5,483 |
| Number of pupils in Primary Schools | 4,839 |
| Number of pupils in Kindergartens | 314 |
| Total | 11,511 |
| Number of pupils belonging to the Public Schools, Jan. 1, 1892 | 11,301 |
| Increase | 210 |
| Average annual increase of pupils, from 1860 to 1880 (inclusive) | 219 |
| Increase of pupils, 1881 | 403 |
| Increase of pupils, 1882 | 448 |
| Increase of pupils, 1883 | 280 |
| Increase of pupils, 1884 | 165 |
| Increase of pupils, 1885 | 589 |
| Increase of pupils, 1886 | 267 |
| Increase of pupils, 1887 | 371 |
| Increase of pupils, 1888 | 173 |
| Increase of pupils, 1889 | 249 |
| Increase of pupils, 1890 | 368 |
| Increase of pupils, 1891 | 222 |
| Increase of pupils, 1892 | 210 |
| Number of Schools | 40 |
| Number of School-rooms | 261 |
| Number of Teachers | 284 |

## Cost of Instruction.

| | | | |
|---|---|---|---|
| Latin School | $12,751 07 | For each pupil | $48 66 |
| English High School | 20,488 50 | " " " | 33 42 |
| Training School | 7,951 00 | " " " | 12 27 |
| Grammar Schools | 86,393 50 | " " " | 15 75 |
| Primary Schools | 60,337 90 | " " " | 12 47 |
| Kindergartens | 6,112 25 | " " " | 19 46 |
| Teachers of Sewing | 1,350 00 | | |
| Director of Music | 1,560 00 | | |
| Director of Drawing | 1,700 00 | | |
| Superintendent | 3,000 00 | | |
| Agent | 1,700 00 | | |
| Clerk | 500 00 | | |
| Special Teacher in Primary Schools | 600 00 | | |
| Truant Officers | 2,700 00 | | |
| | $207,144 22 | For each pupil | 18 00 |
| Cost of instruction in Evening High School | | | $1,226 25 |
| Cost of instruction in Elementary Evening Schools | | | 1,827 50 |
| Cost of instruction in Evening Drawing Schools | | | *1,157 00 |
| | | | $4,210 75 |

* The Director of Drawing is principal of these schools. No part of his salary is included in this amount.

### Remarks on the Statistics.

The increase over the last school year in the number of pupils registered is 377; in the average number belonging, 341; in the average daily attendance, 300. In the per cent of attendance there has been a decrease of one-tenth of one per cent. The number belonging to the schools in December, 1891, was 11,301; in December, 1892, 11,511; an increase of 210. The entire cost of the day schools, excluding the expenditures for new school houses and new furniture, exceeds that of last year by $17,159.35, and the cost per pupil by 84 cents. In the entire cost of instruction the increase is $10,205.52; an increase in the cost per pupil of 35 cents. While Cambridge expends a large amount for her schools, there are *two hundred and thirty-one* towns and cities in the State which make a larger expenditure in proportion to their wealth. In a list of the thirty cities, arranged numerically according to the percentage of their taxable property appropriated to the support of public schools for the year 1891–92, Cambridge is the *nineteenth*, and compared with the fifty-four towns and cities of our county, Cambridge is the *thirty-sixth*. In a list of the towns and cities of the State, arranged numerically according to the sum appropriated for each child between five and fifteen years of age, Cambridge is the *forty-second*.

These statistics relating to the schools of the State are taken from the Fifty-sixth Annual Report of the Secretary of the Board of Education.

### Text-Books and Supplies.

At the meeting of the Board in December, the Committee on Supplies submitted a detailed report of the expenditures of that committee for the year.

This report was accepted, and it was voted that it be incorporated in the annual report of the School Committee. The report with the omission of the names of the firms and individuals among whom the expenditures were divided, is as follows:

"The Committee on Supplies begs leave to submit the following report of its doings for the school year ending July 1, 1892; it being the eighth annual report of this Committee to the Board: —

| | |
|---|---|
| Stock on hand July 1, 1891 | $2,085 09 |
| Purchases and expenditures to July 1, 1892 | 13,512 80 |
| Total | $15,597 89 |

| | | |
|---|---|---|
| *Amount brought forward* | | $15,597 89 |
| Delivered to the Overseers of the Poor | $8 97 | |
| Sold for cash to pupils | 130 87 | |
| Delivered to Schools and Officers | 13,102 75 | |
| | | 13,242 59 |
| Stock on hand July 1, 1892 | | $2,355 30 |

The purchases and expenditures have been:

| | |
|---|---|
| For text-books | $5,161 40 |
| Desk and reference books | 358 40 |
| Drawing and writing books | 1,048 97 |
| Apparatus and furnishings | 1,623 96 |
| Miscellaneous supplies | 4,245 70 |
| Printing ($268.05); expressage ($369.90) | 637 95 |
| Diplomas ($204.93); repairing books ($218.49) | 423 42 |
| Tuning pianos ($13.00) | 13 00 |
| | $13,512 80 |

| | | |
|---|---|---|
| Deducting from the value of books and supplies delivered to Schools and Officers, as above | | $13,102 75 |
| The sales in the High Schools | $84 55 | |
| The damages collected | 48 12 | |
| And profit on sales from the office | 10 87 | |
| | | 143 54 |
| We have, net cost of all Schools and Officers | | $12,959 21 |

or an average cost, per pupil, of $1.147 against $1.248, for the year 1891; $1.334 for the year 1890; $.960 for the year 1889; $1.068 for the year 1888; $1.051 for the year 1887; and $1.17 for the year 1886; $1.88 for the year 1885. The average cost per pupil per annum for seven years has been $1.232.

The cost of each grade of schools for text-books and supplies is as follows: —

| | Net Expense. | Average per Pupil. | | | | |
|---|---|---|---|---|---|---|
| | | 1892. | 1891. | 1890. | 1889. | 1888. |
| High Schools | $3,079.92 | $3.826 | $3.855 | $5.362 | $4.054 | $3.944 |
| Grammar Schools | 4,453.15 | .969 | 1.231 | 1.618 | 1.071 | 1.367 |
| Mixed Schools | 3,320.45 | 2.398 | 1.203 | .985 | .746 | .953 |
| Primary Schools | 588.13 | .140 | .503 | .286 | .276 | .240 |
| Kindergartens | 100.28 | .316 | .648 | ..... | ..... | ..... |
| Evening Schools | 488.41 | ..... | ..... | ..... | ..... | ..... |
| Special Teachers. (Sewing $63.68; Music 52.00; Drawing 200.91) | 316.59 | ..... | ..... | ..... | ..... | ..... |
| Miscellaneous expenses (not chargeable to any grade) | 612.28 | ..... | ..... | ..... | ..... | ..... |
| | $12,959.21 | $1.147 | $1.248 | $1.334 | $.960 | $1.068 |

During the year ending July 1, 1892, the Morse School was furnished with a large amount of supplies, including Desk and Reference Books in the various rooms and, since this school has both Grammar and Primary grades, there appears an unnatural increase in the expenditure for Mixed Schools and a corresponding decrease in those for Grammar and Primary Schools, which prevents making any intelligent comparison with the expenditures of last year. No new Kindergarten was established during the year, nor was there a new Evening School opened, consequently the cost of maintaining these two departments was very much less than the previous year. The removal to the new English High School building occasioned some extra purchases, and for the Chemical and Physical Laboratories additional apparatus was provided, in accordance with a vote of the School Board.

By request of the Mayor, a list and appraisal of all the books, including text-books, apparatus and supplies in the custody of this committee, whether in the storeroom or in the several public schools, was made as of Sept. 1, 1892, with the following result: —

| | |
|---|---|
| Cost of text-books, desk and reference books, and apparatus now in the public schools, purchased under the "Free Text-Book Law" . . . . . | $40,354 41 |
| Estimated value Sept. 1, 1892 . . . . . | $22,196 05 |
| Value, at cost, of supplies in storeroom . . . . . | 1,786 41 |
| Total valuation . . . . . | $23,982 46 |

### Additional Information.

Further information in regard to the schools will be found in the report of the School Committee bound in a separate volume.

FRANCIS COGSWELL,

*Superintendent of Public Schools.*

IN SCHOOL COMMITTEE, Feb. 16, 1893.

*Voted*, That the report prepared and read by the Superintendent be adopted as the Annual Report of the School Committee for 1892, and that the Secretary be authorized to append the names of the members of the Committee thereto.

SANFORD B. HUBBARD,
*Secretary.*

**Members of the School Committee for 1892.**

ALPHEUS B. ALGER, *Chairman ex officio.*

ELLEN A. GOODWIN,
WILLIAM TAGGARD PIPER,
ALBERT BUSHNELL HART,
PHEBE M. KENDALL,
JAMES L. PAINE,
ROBERT O. FULLER,
ANNE CLARK STEWART,
EDWARD B. MALLEY,
WILLIAM H. CLANCY,
* ASA P. MORSE,
CHARLES F. WYMAN,
FRANCIS V. B. KERN,
† WILLIAM A. MUNROE,
‡ WILLIAM A. START,
GEORGE P. JOHNSON,
CAROLYN P. CHASE,
§ FREDERIC W. TAYLOR.

* Resigned, March 17.
† Elected, April 19.
‡ Resigned, Jan. 19.
§ Elected, Feb. 9.

# APPENDIX.

# APPENDIX.

## ORDINANCES PASSED IN 1892.

### An Ordinance in Amendment of an Ordinance, entitled "The Executive."

*Be it ordained by the City Council of the City of Cambridge, as follows :—*

Section 10 of Chapter 2 of the Revised Ordinances of 1892, is hereby amended by striking out, under the heading of appointments in January, the following :

"One member of the Board of Aldermen as a trustee of the public library.

One member of the Common Council as a trustee of the public library."

[*Adopted Dec. 22, 1892.*]

### An Ordinance in Relation to the Salary of the Commissioner of Bridges.

*Be it ordained by the City Council of the City of Cambridge, as follows :—*

On and after the first day of January, 1893, the salary of the Commissioner of Bridges shall be at rate of Seven Hundred Dollars a year.

[*Adopted Dec. 28, 1892.*]

## An Ordinance in Amendment of an Ordinance, entitled "Duties and Salaries."

*Be it ordained by the City Council of the City of Cambridge, as follows:—*

Section 27 of Chapter 27 of the Revised Ordinances of 1892, is hereby amended by inserting in the third line after the word "Mayor," the words "President of the Board of Aldermen."

As amended, the section will read as follows:

Sect. 27. No carriage shall be furnished at the expense of the city, except upon an order therefor signed by the Mayor, the president of the board of aldermen, the president of the common council, or the acting chairman of any committee of the city council; and such order shall state the purpose for which the carriage is required, and shall accompany the bill therefor as a voucher.

[*Adopted Dec. 28, 1892.*]

# MAYORS OF THE CITY OF CAMBRIDGE,

From 1846 to 1893.

---

| | | | | | |
|---|---|---|---|---|---|
| James D. Green . . . | from | May, | 1846, | to April, | 1848 |
| Sidney Willard . . . | " | April, | 1848, | to April, | 1851 |
| George Stevens . . . | " | April, | 1851, | to April, | 1853 |
| James D. Green . . . | " | April, | 1853, | to April, | 1854 |
| *Abraham Edwards . . | " | April, | 1854, | to January, | 1855 |
| Zebina L. Raymond . . | " | January, | 1855, | to January, | 1856 |
| John Sargent . . . . | " | January, | 1856, | to January, | 1860 |
| †James D. Green . . . | " | January, | 1860, | to July 24, | 1861 |
| ‡Chas. Theo. Russell . | " | July 31, | 1861, | to January, | 1863 |
| George C. Richardson . | " | January, | 1863, | to January, | 1864 |
| Zebina L. Raymond . . | " | January, | 1864, | to January, | 1865 |
| J. Warren Merrill . . | " | January, | 1865, | to January, | 1867 |
| Ezra Parmenter . . . | " | January, | 1867, | to January, | 1868 |
| Chas. H. Saunders . . | " | January, | 1868, | to January, | 1870 |
| Hamlin R. Harding . . | " | January, | 1870, | to January, | 1872 |
| Henry O. Houghton . . | " | January, | 1872, | to January, | 1873 |
| Isaac Bradford . . . | " | January, | 1873, | to January, | 1877 |
| Frank A. Allen . . . | " | January, | 1877, | to January, | 1878 |
| Samuel L. Montague . | " | January, | 1878, | to January, | 1880 |
| James M. W. Hall . . | " | January, | 1880, | to January, | 1881 |
| James A. Fox . . . . | " | January, | 1881, | to January, | 1885 |
| William E. Russell . . | " | January, | 1885, | to January, | 1889 |
| Henry H. Gilmore . . | " | January, | 1889, | to January, | 1891 |
| Alpheus B. Alger . . | " | January, | 1891, | to January, | 1893 |
| William A. Bancroft . | " | Now in office. | | | |

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*Municipal year changed. †Resigned. ‡First elected by the City Council.

# GOVERNMENT OF THE CITY OF CAMBRIDGE.

1893.

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**Mayor.**

HON. WILLIAM A. BANCROFT.

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**Board of Aldermen.**

JOHN R. FAIRBAIRN, *President.*

*Ward One.*

WILLIAM R. HOWLAND.

*Ward Two.*

WELLINGTON FILLMORE. ANDREW J. RADY.

*Ward Three.*

JOHN R. FAIRBAIRN. JOHN S. CLARY.

JOHN H. PONCE.

*Ward Four.*

ROBERT B. BANCROFT. CHARLES W. CHENEY.

JOHN G. THOROGOOD.

*Ward Five.*

HORACE P. BLACKMAN. WALTER H. LERNED.

*Clerk.*

WALTER W. PIKE.

## Common Council.

J. Henry Russell, *President.*

*Ward One.*

Russell Bradford. Alfred B. Parker.
Frederick W. Reeves. William B. Reid.

*Ward Two.*

Louis F. Baldwin. Charles M. Conant.
Douglass Olive. Peter F. Rourke.
J. Henry Russell.

*Ward Three.*

Peter P. Bleiler. Bernard J. Brogan.
William F. Casey. John T. Shea.

*Ward Four.*

George Allen. Clarence H. Douglass.
Charles P. Keith. Arthur M. Stewart.
George B. Whitmore.

*Ward Five.*

Thomas F. Dolan. Frank E. Sands.

*Clerk.*

Edward J. Brandon.

*Page.*

William A. Walker.

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## City Clerk.

Walter W. Pike.

*Assistant City Clerk.*

Edward J. Brandon.

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## City Messenger.

Francis L. Pratt.

# COMMITTEES OF THE CITY COUNCIL.

## Joint Standing Committees.

*Accounts.* Aldermen Cheney and Rady; Councilmen Conant, Dolan and Parker.

*Almshouse.* Aldermen Cheney and Rady; Councilmen Reeves, Casey and Whitmore.

*Assessors' Department.* Alderman Lerned; Councilmen Bleiler and Stewart.

*City Engineering.* Aldermen Blackman and Clary; Councilmen Whitmore, Olive and Reid.

*Claims.* The President and Aldermen Howland, Lerned and Thorogood; the President and Councilmen Allen, Shea, Baldwin, Parker and Dolan.

*Electric Wires.* Aldermen Bancroft and Blackman; Councilmen Casey, Reeves and Shea.

*Finance.* The President and Aldermen Howland, Ponce and Rady; the President and Councilmen Sands, Bleiler, Bradford, Conant and Stewart.

*Fire Department.* Aldermen Clary and Bancroft; Councilmen Rourke, Douglass and Reid.

*Health.* Aldermen Rady and Ponce; Councilmen Dolan, Bleiler and Parker.

*Lamps.* Aldermen Cheney and Clary; Councilmen Baldwin, Whitmore and Casey.

*Ordinances.* Aldermen Howland and Rady; Councilmen Stewart, Brogan and Bradford.

*Printing.* Aldermen Bancroft and Ponce; Councilmen Reid, Allen and Whitmore.

*Public Instruction.* Aldermen Thorogood and Blackman; Councilmen Bradford, Allen and Sands.

*Public Property.* Aldermen Bancroft and Fillmore; Councilmen Brogan, Keith and Rourke.

*Roads and Bridges.* Aldermen Lerned and Clary; Councilmen Shea, Olive and Reeves.

*Rules and Orders.* Aldermen Ponce and Howland; Councilmen Keith, Rourke and Stewart.

*Water Supply.* Aldermen Thorogood and Lerned ; Councilmen Olive, Brogan and Keith.

*Legislative Matters.* The President and Aldermen Howland and Ponce ; the President and Councilmen Bradford, Douglass and Conant.

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### Standing Committees of the Board of Aldermen.

*Bonds.* Aldermen Cheney, Rady and Lerned.

*Claims.* The President and Aldermen Howland, Thorogood and Lerned.

*Fire Department.* Aldermen Clary, Bancroft and Rady.

*Health.* Aldermen Rady, Ponce and Thorogood.

*Licenses.* Aldermen Howland, Thorogood and Fillmore.

*Police.* Aldermen Howland, Fairbairn and Fillmore.

*Roads and Bridges.* Aldermen Lerned, Clary and Bancroft.

*Sewers.* Aldermen Ponce, Cheney and Fillmore.

*Street Railways.* Aldermen Lerned, Clary and Bancroft.

*Rules and Orders.* Aldermen Ponce, Howland and Blackman.

*Elections and Returns.* Aldermen Cheney, Blackman and Rady.

*Soldiers' Aid.* Aldermen Bancroft, Howland, Fillmore, Ponce and Blackman.

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### Committees of the Common Council.

*Bills in the Second Reading.* Councilmen Casey, Keith and Sands.

*Elections and Returns.* Councilmen Douglass, Shea and Rourke.

*Enrolled Ordinances.* Councilmen Bleiler, Olive and Allen.

*Clerk of Committees.*

John McDuffie.

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### City Auditor.

Harry T. Upham.

### City Treasurer.

William W. Dallinger.

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### Board of Health.

E. Edwin Spencer, M. D., *City Physician ex officio.*
(Term three years. From 1892.)

Henry E. Warner, to fill vacancy occasioned by the resignation of Daniel H. Thurston (appointed 1892).
William H. Whitney (appointed 1893).
(Term, two years.)

*Clerk.*
James B. Soper.

*Health Officer.*
Edwin Farnham, M. D.

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### Surveyor of Highways.

His Honor, the Mayor.

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### Assessors.

Joshua G. Gooch (term expires 1893).
Joseph Whittemore (term expires 1894).
Andrew J. Green (term expires 1895).
(Term, three years.)

*Assistant Assessors.*

Warren Ivers.
John M. Davis.
Daniel B. Shaughnessy.
Richard W. Sutton.
Daniel J. Hayes.

## School Committee.

William A. Bancroft, Mayor *ex officio*, *Chairman.*

WARD I.

Albert B. Hart (term expires 1893).
William T. Piper (term expires 1894).
Ellen A. Goodwin (term expires 1895).

WARD II.

Robert O. Fuller (term expires 1893).
Phebe M. Kendall (term expires 1894).
Alphonso E. White (term expires 1895).

WARD III.

Edward B. Malley (term expires 1893).
William H. Clancey (term expires 1894).
Annie Clark Stewart (term expires 1895).

WARD IV.

Mary E. Mitchell (term expires 1893).
Charles F. Wyman (term expires 1894).
William A. Munroe (term expires 1895).

WARD V.

George P. Johnson (term expires 1893).
Caroline P. Chase (term expires 1894).
Frederic W. Taylor (term expires 1895).

(Term, three years.)

*Secretary.*

Sanford B. Hubbard.

*Superintendent of Schools.*

Francis Cogswell.

## Overseers of the Poor.

Charles E. Vaughan, *Chairman.*

Charles E. Vaughan (term expires 1893).
William W. Burrage (term expires 1894).
Charles Bullock (term expires 1895).
Charles Walker (term expires 1896).
Stephen Anderson (term expires 1897).

(Term, five years.)

*Secretary.*

David P. Muzzey.

*Visitor.*

Vespasian Danforth.

*Warden of the Almshouse.*

Martin L. Eldridge.

*Assistant City Physician.*

Lewis L. Bryant, M. D.

(Elected in April by the Overseers of the Poor, subject to the approval of the Board of Aldermen.)

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## Cambridge Cemetery.

*Commissioners.*

George S. Saunders, *Chairman.*

William A. Bertsch (term expires 1894).
Charles O. Welch (term expires 1894).
Henry A. Doherty (term expires 1895).
Nathan C. Lombard (term expires 1895).
George S. Saunders (term expires 1896).
Herbert A. Chase (term expires 1896).

(Term, three years.)

*Superintendent.*

Charles S. Childs.

### Trustees of the Cambridge Public Library.

Albert M. Barnes, *President.*
William T. Piper, *of School Committee.*

*Citizens at Large.*

John H. H. McNamee (term expires 1894).
Alvin F. Sortwell (term expires 1894).
Samuel L. Montague (term expires 1895).
Thomas W. Higginson (term expires 1895).
Jabez Fox (term expires 1896).
Albert M. Barnes (term expires 1896).

(Term, three years.)

*Librarian.*
Almira L. Hayward.

*Secretary.*
John H. H. McNamee.

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### Cambridge Water Board.

Leander M. Hannum (term expires 1893).
John F. O'Brien (term expires 1894).
George H. Howard (term expires 1895).
James M. W. Hall (term expires 1896).
Chester W. Kingsley, *President* (term expires 1897).

(Term, five years.)

*Clerk.*
Walter H. Harding.

*Superintendent of Water Works.*
Hiram Nevons.

*Pumping Engineer.*
Edwin C. Brooks.

*Water Registrar.*
Walter H. Harding.

*Trustees of Sinking Fund of Water Loan.*

The Mayor, City Treasurer, and President of the Common Council, *ex officiis.*

### Commissioners on Sinking Funds of the City.

John C. Bullard (term expires 1893).
George H. Howard (term expires 1893).
Joseph A. Holmes (term expires 1894).
Andrew J. Lovell (term expires 1894).
Charles H. Saunders (term expires 1895).
Frank A. Allen (term expires 1895).

(Term, three years.)

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### Trustees of the Sanders Temperance Fund.

The Mayor, the President of the Board of Aldermen and the President of the Common Council, *ex officiis*.

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### Trustees of the Bridge Charitable Fund.

The Mayor, the President of the Board of Aldermen and the President of the Common Council, *ex officiis*.

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### Trustees of the Dowse Institute.

The Mayor, and the President of the Common Council, *ex officiis*.
William W. Wellington. Willard A. Bullard.
Frank A. Allen.

---

### Senators in General Court.

John Read.
Third Middlesex District, Wards 1, 2, 4, 5.

John F. Fitzgerald.
Third Suffolk District, Ward 3.

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### Representatives in General Court.

John E. Parry. Stephen Anderson.
James J. Myers. William M. Townsend.
Albert E. Lynch. Malcolm E. Rideout.
Daniel H. Coakley.

### Registrars of Voters.

Horace K. Osborn, *Clerk* (term expires May 1, 1893).
Isaac Bradford, *Chairman* (term expires May 1, 1894).
James Cox (term expires May 1, 1895).
William J. Breen (term expires May 1, 1896).

One appointed annually, in March or April, to hold office four years.

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### Third District Court of Eastern Middlesex.

*Standing Justice.*

Charles Almy.

*Special Justices.*

Samuel W. McDaniel. Augustine J. Daly.

*Clerk.*

Emerson W. Law.

*Probation Officer.*

Frederick W. Hagar.

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### City Solicitor.

Charles J. McIntire.

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### City Engineer.

Lewis M. Hastings.

---

### Superintendent of Sewers.

Theodore L. Pike.

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### Inspector of Wires.

Charles H. Morse.

**Commissioner on West Boston, Craigie's, Prison Point and Harvard Bridges.**

William J. Marvin.

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**Harbor Master.**

William J. Marvin.

---

**Superintendent of Streets.**

Edgar H. Reed.

---

**Superintendent of Public Buildings.**

Benjamin H. Steele.

---

**Superintendent of Lamps.**

Charles H. Morse.

---

**Board of Engineers.**

*Chief Engineer.*

Thomas J. Casey.

*Call District Chiefs.*

Nathaniel W. Bunker. Charles W. Brackett.

William B. Cade.

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**Police Department.**

*Chief of Police.*

Lothrop J. Cloyes.

*Captains of Police.*

| District No. 1. | District No. 2. | District No. 3. |
|---|---|---|
| Thomas H. Lucy. | John F. Murray. | Mark J. Folsom. |

*Court Officer.*

Sergt. William F. Batchelder.

*Sergeants of Police.*

| District No. 1. | District No. 2. | District No. 3. |
|---|---|---|
| Callahan, Daniel. | Alexander, James S. | Corcoran, Dennis. |
| Pullen, Fred. B. | Pike, Charles L. | Mullett, William. |
| Sproul, Andrew. | | |

*Policemen.*

(With the numbers of their badges.)

District No. 1.

| No. | | No. | |
|---|---|---|---|
| 7 | Barrington, George T. | 44 | Marston, Charles C. |
| 28 | Belcher, Edward F. | 55 | Maloy, John P. |
| 53 | Blen, Elbridge S. | 10 | McBride, John J. |
| 69 | Brennan, Michael J. | 16 | McCabe, Edward J. |
| 29 | Conry, Michael J. | 1 | McCrehan, John E. |
| 20 | Corcoran, Timothy | 26 | McElroy, James L. |
| 56 | Coulter, John | 57 | McNamee, Hugh J. |
| 25 | Comerford, Edward J. | 18 | McNulty, James E. |
| 40 | Doyle, Patrick | 76 | Mullen, William N. |
| 8 | Furbush, Joseph H. | 75 | Mulvaney, Simon J. |
| 2 | Graves, William H. | 62 | Roper, Bernard J. |
| 49 | Hiscock, Simon D. | 6 | Shackford, Leonard |
| 47 | Hixon, Robert T. | 21 | Smyth, George |
| 22 | Hooper, Moses W. | 67 | Sullivan, Thomas F. |
| 58 | Holt, James H. H. | 42 | Wells, John H. |
| 19 | Joyce, Edward | 48 | Winslow, John E. |
| 17 | Jewett, Dexter | 3 | White, Orrin B. |
| 35 | Ladd, Fred L. | 78 | Rowe, Wm. H. |

District No. 2.

| No. | | No. | |
|---|---|---|---|
| 51 | Aylward, Richard H. | 14 | Higgins, Benj. F. |
| 36 | Butcher, William A. | 33 | Howe, William H. H. |
| 71 | Counihan, Daniel F. | 11 | Jones, Henry C. |
| 34 | Culhane, Michael | 23 | Law, Frederick W. |
| 68 | Deehan, John W. | 27 | McCann, Charles J. |
| 50 | Dynan, Thomas F. | 72 | McCaffery, Bernard |
| 38 | Ginty, Michael A. | 30 | McCarthy, Jeremiah |
| 9 | Hall, James P. | 13 | McKeen, Benjamin |

15 McKeown, William F.
43 Murray, James E.
45 Murray, Patrick F.
4 Neilon, Michael
52 Priest, Charles W.
59 Real, Thomas J.
70 Robinson, Fred A.
31 Robertson, William H.
24 Stevens, David A.
61 Sullivan, Cornelius
54 Wiley, John

District No. 3.

| No. | | No. | |
|---|---|---|---|
| 5 | Apel, Frederick | 60 | Lamb, Michael F. |
| 66 | Coghlin, Francis J. | 39 | McCorry, Joseph F. |
| 74 | Forrestall, James B. | 64 | McMenimen, Wm. H. |
| 41 | Griffith, John J. | 73 | Rowe, Thomas P. |
| 12 | Hartnett, Timothy J. | 46 | Scobey, Frank W. |
| 77 | Hezlitt, John A. | 65 | Shaughnessy, John E. |
| 37 | Hurley, Patrick F. | 63 | Skelley, John W. |
| 32 | Keaney, James M. | | |

*Drivers of Patrol Wagons.*

John Cook.
John J. McCauley.
John Sullivan.
John Coffey.

*Matrons.*

Mrs. E. S. Hains.
Mrs. A. M. Stearns.

*Policemen, without pay (within the civil service).*

William H. Aberle,
Horace A. Allyn,
John A. Austin,
Oliver W. Balcom,
Richard Balmer,
John A. Bartlett,
William H. Bates,
Edmund R. Blinn,
Charles F. Bowman,
Charles W. Brackett,
John B. Brady,
James T. Brassil,
Timothy J. Breen,
James K. Bresnan,
James Burke,
Daniel A. Buckley,
Ferdinand N. Buffum,
Nathaniel W. Bunker,
William Burgess,
Samuel Busnach,
William B. Cade,
William H. Cairns,
Thomas J. Casey,
William H. Carroll,
James Carter,
Moses M. Child,
Charles S. Childs,
Ambrose H. Clark,
Noah M. Cofran,
John Collier,
John A. Condon,
Jeremiah J. Connell,
Patrick Corcoran,
Vespasian Danforth,

Abner R. Davis,
Frank E. Dennison,
Daniel K. Dinsmore,
Patrick F. Dunlea,
Martin L. Eldridge,
Luther F. Fleming,
Thomas Flynn,
Oliver G. Fosdick,
William Foster,
Edward J. Forbes,
James H. Furfey,
James J. Garvin,
Charles A. Gay,
Eli L. Goodrow,
Herbert Gordon,
James Grant,
Mertie M. Hackett,
Henry L. Hale,
Luther Hapgood,
John L. Harrington,
Thomas L. Harrington,
John A. Hezlitt,
Thomas M. Howard,
J. Lewis Howe,
William Hunnewell,
Samuel F. Hunt,
Thomas W. Jones,
Frank W. Keaney,
John Kelleher,
Conrad D. Kinnear,
Joseph P. Kline,
Denis F. Leahy,
William B. Lehmkuhl,
James W. Lovering,
James H. Lyons,
Francis M. Mason,
Jeremiah S. McCabe,
John H. McCarthy,
John B. McGovern,
James McLean,
John R. McPeake,
George W. Montgomery,
Thomas Montgomery,
Robert E. Mullen,
Simon J. Mulvaney,
Dennis Murphy,
Michael Murphy,
Nathaniel M. Neal,
Augustus W. Nelson,
Hiram Nevons,
James H. Newman,
Francis A. Osborn,
George A. Parmenter,
Francis L. Pratt,
Charles L. Russell,
Joshua S. Sanborn,
Charles M. Sanborn,
Benjamin C. Scully,
John F. Sharkey,
John T. Shea,
Andrew G. Smith,
Edward Smith,
Gideon Smith,
James W. Thompson,
David H. Walsh,
Edward J. Welch,
Clarence H. Whiting,
James F. Wilkinson,
George Wood.

*Policemen* (*without pay*).

Antonio Francis,
Rolly Stovvoll,
Harry Ellis,
Peter Shea,
Patrick Cronin,
Angus S. McDonald,
Samuel H. Swain,
James A. Gorman,
Thomas C. Butler,
Samuel E. Tasco,

Alex. F. Shepherd,
Joseph S. Skelton,
Anton J. Rice,
Frank C. Hatch,
William E. Potter,
George P. Knowlton,
Rufus S. Downe,
John Clark,
John A. O'Connor,
Patrick Murphy,
Charles O. Dam,
Rudolph Erhardt,
William L. Lyon,
James C. Scorgie,
James F. Dunn,
Charles W. Dailey,
Frederick Clover,
William Murphy,
Patrick Clark,
Hartwell S. Pettes.
Edwin C. Brooks,
Andrew J. Ayer,
Frank Frates,
Kenney C. Lowell,
Robert Alexander,
Wesley Wile,
George R. Oliver,
Armon A. Kiner,
James A. Saunders,
William Marsman,
John M. Day,
Harlan Z. Page,
William McClain,
George Eastman,
William H. Churchill,
Thomas Elworth,
John A. Solari,
Elisha B. Caution,
William E. Eyles,
John Dillon,
Frank Russell,
B. Frank Robinson,
Edgar L. Wentworth,
Charles B. Gordon,
Robert T. B. Pierce,
Robert A. Parry,
Melvin W. Perry,
Edward E. Coye,
Dennis J. Farrell,
Richard W. Sutton,
Horace D. Litchfield,
James E. Furguson,
John I. Carroll,
James Main,
Herbert E. Lombard,
Robert Roger,
John O'Brien,
James Doherty,
Walter J. Anderson,
Arthur F. Miller,
John L. Kirby,
Charles H. Morse,
William C. Pierce,
George A. Patten,
John F. Donnelly,
William F. Peck,
John Reardon,
John T. Cook,
Charles I. Marston,
Louis Miller,
John Coffey,
John McCauley,
John H. Hollenback,
William H. Cutler,
John J. Shea,
Albert F. Roberts,
Irving H. Henderson,
John E. Moran,
Norman McConnell,
John Sullivan,
David Garvin,
Frank W. Marshall,
Frederick McKenzie,
John Mahoney.

*Keeper of Lock-ups.*

Lothrop J. Cloyes.

*Truant Officers.*

Moses M. Child.
Francis M. Mason.
John Collier.
John Carmichael.

*Constables.*

George T. Barrington,
William F. Batchelder,
Michael S. Busnach,
Edward F. Chase,
Lothrop J. Cloyes,
Vespasian Danforth,
John M. Davis,
Lawrence J. Ducey,
John R. Fairbairn,
Mark J. Folsom,
William A. Ford,
Joseph Fox,
Alonzo S. Harriman,
Appleton Hubbard,
Warren Ivers,
P. Allen Lindsey,
Thomas H. Lucy,
Frank H. Lull,
Frederic A. Lull,
James I. Murphy,
John F. Murray,
Daniel B. Nash,
Thomas C. Scottron,
Frank E. Shaw,
John W. Skelley,
Arthur M. Stewart,
Edward M. Williams.

---

**Undertakers.**

John W. Coveney,
David F. Corcoran,
Thomas Devens,
David Fudge,
Samuel F. Hunt,
George H. Kelley,
Joseph J. Kelley,
Gustavus King,
Horace D. Litchfield,
Judson Litchfield,
C. Henry Lockhart,
Abiel E. Long,
James F. Mullen,
Alexander Marcille,
George F. Ricker,
John J. Ross,
William Ross,
James J. Shea,
John T. Shea,
William A. Taylor,
Benjamin F. Wyeth,
Henry A. Wyeth.

### Auctioneers.

William H. Adsit,
John K. Abbott,
Daniel A. Buckley,
Norman J. Campbell,
Jeremiah W. Coveney,
Watson G. Cutter,
Andrew F. Dwyer,
William R. Ellis,
John R. Fairbairn,
Max Frankenstein,
Leander M. Hannum,
Stephen H. Harrington,
Daniel J. Hayes,
George H. Lawrence,
James E. Lennon,
P. Allen Lindsey,
Frederic A. Lull,
John Mahady,
Charles L. Phillips,
Edmund E. Sanborn,
Thomas C. Scottron,
Humphrey L. Snow,
Francis Traynor.

---

### Fence Viewers.

Lewis M. Hastings. Colin Chisholm. Abel Stevens.

---

### Field Drivers.

James S. Alexander,
Frederick Apel,
Richard H. Aylward,
George T. Barrington,
William F. Batchelder,
Edward F. Belcher,
Elbridge S. Blen,
Michael J. Brennan,
William A. Butcher,
Daniel Callahan,
Francis J. Coghlan,
Edward J. Comerford,
Michael J. Conry,
Dennis Corcoran,
Timothy Corcoran,
John Coulter,
Daniel F. Counihan,
Michael Culhane,
John W. Deehan,
Patrick Doyle,
Thomas F. Dynan,
James B. Forristall,
Joseph H. Furbush,
Michael A. Ginty,
William H. Graves,
John J. Griffiths,
James P. Hall,
Timothy J. Hartnett,
John A. Hezlett,
Benjamin F. Higgins,
Simon D. Hiscock,
Robert T. Hixon,
James H. H. Holt,
William H. H. Howe,
Patrick J. Hurley,
Dexter Jewett,

Henry C. Jones,
Edward Joyce,
James M. Keaney,
Frederick L. Ladd,
Michael F. Lamb,
Frederick W. Law,
John P. Maloy,
Charles C. Marston,
John J. McBride,
Edward J. McCabe,
Bernard McCaffrey,
Charles J. McCann,
Jeremiah McCarthy,
Joseph F. McCorry,
John E. McCrehan,
James L. McElroy,
Benjamin McKeen,
William F. McKeown,
William H. McMenimen,
Hugh J. McNamee,
James E. McNulty,
William Mullett,
William N. Mullins,
James E. Murray,
Patrick F. Murray,
Simon J. Mulvaney,
Michael Neilan,
Charles L. Pike,
Frederick B. Pullen,
Charles W. Priest,
Thomas J. Real,
William H. Robertson,
Frederick W. Robinson,
Bernard J. Roper,
Thomas P. Rowe,
William H. Rowe,
Frank W. Scobey,
Leonard Shackford,
John E. Shaughnessy,
John W. Skelley,
George Smyth,
David A. Stevens,
Cornelius Sullivan,
Thomas F. Sullivan,
John H. Wells,
Orrin B. White,
John Wiley,
John E. Winslow.

---

**Measurers of Wood and Bark.**

Herbert T. Lawrence,
Robert A. Parry,
Joshua S. Sanborn,
Henry B. Sellon.

---

**Pound-Keeper.**

Arthur F. Miller.

---

**Committee for the Preservation of Fish.**

Lewis M. Hastings,
Theodore L. Pike,
Edward B. James.

**Hay Weighers.**

Thomas Gurnham,
Joshua S. Sanborn,
Henry B. Sellon,
Timothy Sullivan.

---

**Coal Weighers.**

Frank E. Bailey,
Hiram W. Brooks,
Silas E. Buck,
Edward E. Coye,
Walter F. Grieves,
Fred A. Humiston,
Herbert T. Lawrence,
Charles H. Lealand,
Thomas H. Matthews,
John Moynahan,
John E. A. Mulliken,
Amos Pettingill,
Joshua S. Sanborn,
Frank H. Tyler,
Alfred H. Wellington,
Ernest H. Wellington.

---

**Weigher of Boilers and Heavy Machinery.**

Joshua S. Sanborn.

---

**Inspectors of Junk Shops, Pawnbrokers' Shops and Second-hand Clothing Stores and Dealers.**

Lawrence J. Ducey,
Mark J. Folsom,
Alonzo S. Harriman,
Thomas H. Lucy,
John F. Murray.

---

**Sealer of Weights and Measures.**

Albert F. Roberts.

---

**Weighers.**

Leonard R. Bacon,
Edward J. Carroll,
Isaac A. Chandler,
James W. Coleman,
William L. Ducey,
John Guiney,
Charles F. Hittinger,
Nathan H. Holbrook,
Henry Hooker,
William Maloney,

Arthur F. Miller,
Alfred Morrill,
George L. Murdock,
Walter H. Murdock,
Robert S. Paine,
John Reardon, Jr.,
Joshua S. Sanborn,
James J. Scully,
Thomas H. Shea,
Frank H. Tyler,
Alexander Wight.

---

**Inspector of Milk.**

Frank A. Dunbar.

---

**Inspector of Vinegar.**

Frank A. Dunbar.

---

**Inspector of Provisions and Animals Intended for Slaughter.**

William Ferguson.

---

**Person to Receive Information of Damages Done by Dogs.**
**(Ch. 454, Acts of 1889.)**

Lothrop J. Cloyes.

---

**Persons to Cause to be Properly Interred the Bodies of Soldiers and Sailors.**

Cornelius G. H. Bennink,
John W. Coveney,
William H. Eveleth,
Joseph J. Kelley.

---

**Surveyors of Mechanics' Work.**

Charles A. Mason,
John S. Pollard.

---

**Measurer and Surveyor.**

Henry L. Hale.

---

**Inspector of Charcoal Baskets.**

Albert F. Roberts.

---

**Measurer of Grain.**

Albert F. Roberts.

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